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THIRD SPECIAL REPORT

OF THE

COMMISSIONER OF LABOR.

413193

ANALYSIS AND INDEX

OF ALL REPORTS ISSUED

•
BY

BUREAUS OF LABOR STATISTICS

IN THE

UNITED STATES

PRIOR TO NOVEMBER 1, 1892.

PREPARED UNDER THE DIRECTION OF

CARROLL D. WRIGHT,

COMMISSIONER OF LABOR,

FOR THE USE OF THE U. S. DEPARTMENT OF LABOR.

WASHINGTON:

GOVERNMENT PRINTING OFFICE,

1893.

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INTRODUCTION.

At the beginning of November, 1892, there were in the United States, including the federal government, twenty-eight offices popularly known as bureaus or departments of labor. These offices have various titles, but their duties are similar. The first office of the kind (in this or any other country) was created by the Massachusetts legislature June 23, 1869; since which date various states have created them. Up to November 1, 1892, these various offices had issued 174 reports relating to social and industrial matters. This great mass of material it has been difficult to use, for lack of any clue to its contents, although the Department is constantly called on for information which may here be found. To meet its own needs, therefore, it has been thought wise to make an analytical abstract and index of the contents of the reports of each state, that immediate reference can be made to what has been treated, and to the volume in which the treatment is contained. This analytical index enables the Department to reply at once to such requests for information. All reports published before November 1, 1892, are included.

While this work is not for distribution in a general way, yet it will be found in the leading libraries of the country, where it will be placed for purposes of reference.

The following tabular statement gives the states in which labor bureaus are located, the official name of each bureau and title of the head thereof, the date of the approval of the act creating the bureau, and the frequency and number of the reports issued up to November 1, 1892.

LABOR BUREAUS IN THE UNITED STATES NOVEMBER 1, 1892.

State.	Name of office.	Title of head of office.	Date of approval of act creating the office.	Reports issued.	
				Annual, biennial, etc.	Number.
Massachusetts.	Bureau of Statistics of Labor.	Chief.....	June 23, 1869....	Annual...	22
Pennsylvania..	Bureau of Industrial Statistics.	...do (a)	April 12, 1872....	...do	19
Connecticut...	Bureau of Labor Statistics....	Commissioner...	July 12, 1873 (b)...	...do	7
Ohio.....	Bureau of Statistics of Labor.	...do	May 5, 1877....	...do	14
New Jersey....	Bureau of Statistics of Labor and Industries.	Chief.....	March 27, 1878....	...do	14
Indiana	Bureau of Statistics .....	...do	March 29, 1879....	Biennial(c)...	9
Missouri	Bureau of Labor Statistics and Inspection.	Commissioner...	May 19, 1879 (d)...	Annual...	13

^a From organization to May 11, 1874, commissioner.

^b Abolished by act approved July 23, 1875. Reestablished by act approved April 23, 1885.

^c To March 9, 1889, annual.

^d This act created a bureau of labor statistics and was repealed by an act approved March 23, 1883, which created a bureau of labor statistics and inspection.

LABOR BUREAUS IN THE UNITED STATES NOVEMBER 1, 1892—Concluded.

State.	Name of office.	Title of head of office.	Date of approval of act creating the office.	Reports issued.	
				Annual, biennial, etc.	Number.
Illinois	Bureau of Labor Statistics.....	Secretary	May 29, 1879.....	Biennial ..	6
California	Bureau of Labor Statistics.....	Commissioner ..	March 3, 1883.....	do	4
Wisconsin	Bureau of Labor and Industrial Statistics.	do	April 3, 1883.....	do	4
New York.....	Bureau of Labor Statistics.....	do	May 4, 1883.....	Annual ..	8
Michigan.....	Bureau of Labor and Industrial Statistics.	do	June 6, 1883.....	do	9
Maryland.....	Bureau of Industrial Statistics and Information.	Chief	March 27, 1884.....	Biennial ..	4
Iowa	Bureau of Labor Statistics.....	Commissioner ..	April 2, 1884.....	do	4
United States..	Bureau of Labor.....	do	June 27, 1884(a) ..	Annual ..	4
Do.....	Department of Labor.....	do	June 13, 1888(a) ..	Annual and special.	4
Kansas	Bureau of Labor and Industrial Statistics.	do	March 5, 1885.....	Annual ..	7
North Carolina.	Bureau of Labor Statistics ..	do	February 28, 1887 ..	do	5
Maine	Bureau of Industrial and Labor Statistics.	do	March 7, 1887.....	do	5
Minnesota	Bureau of Labor Statistics.....	do	March 8, 1887.....	Biennial(b) ..	2
Colorado	Bureau of Labor Statistics.....	Deputy commissioner. (c)	March 24, 1887.....	do	2
Rhode Island ..	Bureau of Industrial Statistics	Commissioner ..	March 29, 1887.....	Annual ..	5
Nebraska.....	Bureau of Labor and Industrial Statistics.	Deputy commissioner. (d)	March 31, 1887.....	Biennial ..	2
Texas.....	Department of Agriculture, Insurance, Statistics, and History.	do	March 2, 1889 .....	.....	.....
Idaho	Bureau of Immigration, Labor, and Statistics.	Commissioner ..	August 6, 1889	Annual ..	.....
North Dakota..	Department of Agriculture and Labor.	do	October 1, 1889 ..	Biennial ..	1
South Dakota..	Department of Labor and Statistics.	Commissioner ..	March 7, 1890 .....	.....	.....
Utah	Bureau of Statistics.....	Territorial statistician.	March 13, 1890.....	Annual ..	.....
Tennessee	Bureau of Labor, Statistics, and Mines.	do	March 23, 1891.....	.....	.....

a The functions of the bureau of labor ceased June 13, 1888, the date of approval of the act creating the department of labor by which it was succeeded.

b To April 24, 1889, annual.

c The secretary of state is *ex officio* commissioner.

d The governor is *ex officio* commissioner.

Anyone desiring to communicate with the chief officer of any of the bureaus named in the foregoing statement should address him at the capital of the state in which he serves, with two exceptions: the chief officer of the bureau of industrial statistics and information of Maryland being located at Baltimore, and of the bureau of labor statistics of California at San Francisco.

CARROLL D. WRIGHT,
Commissioner of Labor.

U. S. DEPARTMENT OF LABOR,
Washington, D. C., December 1, 1892.

CALIFORNIA.

FIRST BIENNIAL REPORT, 1883 AND 1884.—[280 PAGES.]

The scope and aim of the bureau (4 pages).—Under this head are given a list of the state labor bureaus then established and the act creating the California bureau.

The labor question (7 pages).—This is a general consideration of the condition of labor in the state.

Industrial development (12 pages).—Here is given a general consideration, in twelve pages of text, of the different prominent industries of the state.

Descriptively, the state, by counties (59 pages).—This comprises a comprehensive description of the state by counties, including in every case the area, geographical and topographical features, the agricultural condition, etc.

In compliance with the law (42 pages).—An unsuccessful attempt to gain information concerning industries, employes, hours of labor, etc., through circulars sent to each county assessor. Reports from three assessors only are given as samples giving some few statistics. The returns which were received are embodied in a single table.

Employers and employes (15 pages).—Under this heading are given returns from circulars sent to employers and employes. Answers of individuals are separately given in some cases. The cost of living, by individuals and occupations, is shown by a table giving the yearly amounts paid for rent, fuel, clothing, etc. Another table shows the retail prices of necessities in San Francisco compared with Massachusetts and Great Britain. Several bills of fare for saloons in San Francisco are given; also the names, dates of organization, and branch of trade of a number of labor organizations, and the condition of the labor market in San Francisco as reported by committee of Labor Council.

Convict labor (22 pages).—Contains state laws regarding convict labor, an abstract of testimony taken by the commissioner regarding the effect of convict labor, and his conclusions. Short tables show the amount and value of furniture manufactured in the state prison in one month.

Chinese labor (4 pages).—This is a treatment of Chinese labor in the state. Three tables are given, showing the wages of Chinese by occupations, the number of Chinese to every 100,000 whites in eight western states and territories, and the number of Chinese, Japanese, and Indians in every state and territory, according to the census of 1880.

The land and its products (15 pages).—Under the above head are presented three articles: Labor and statistical problems of the farm, by Prof. W. J. Sanborn; California brandy and wine reports; and The barley condition of the country, compiled from the columns of the San Francisco Chronicle and Bulletin. Tables show the acreage and distribution of the public lands of the state by counties, and the number of acres suitable for certain purposes; the yield of corn per acre for ten states for the last nineteen years, in four periods; the earnings of commerce and manufactures per capita, and the yield of bushels of grain per acre for the United States and the principal countries of Europe (from Mulhall); the exports, by sea, of brandy and of wine (separately) from the state, with their value, for each year, 1864 to 1883; the railroad returns of brandy and wine exported east, 1870 to 1883; the exports of brandy by rail and by sea for two periods, 1864 to 1873 and 1874 to 1883; the acreage in barley and the yield in bushels in nine states producing each over

1,000,000 bushels (from the census of 1880); the exports of barley from San Francisco for the years 1864 to 1883, by value and amount in cents; shipments of barley overland for the years 1873 to 1883, and places from which sent; and the imports and exports of barley for the United States for the years 1873 to 1883, in bushels.

Trade interests (11 pages).—Three articles are given under the above heading, the first, What we buy and sell—From and to whom, being a compilation from a quarterly report of the Bureau of Statistics at Washington, D. C., and the other two treating of the industries Bags and burlap, and the Lumber export trade of California. Five one-fourth page tables are given showing the value of domestic exports for 1882-'83 by products and the percentage of each; the shipments of hides by water each year, 1858 to 1883, and by rail, 1870 to 1883, and the exports of lumber from the state by sea for the years 1864 to 1883.

The eight-hour law (6 pages).—This is a general textual consideration of factory legislation, containing a summary of the laws of eleven states concerning labor.

School statistics (3 pages).—These comprise a report furnished by the state superintendent of public instruction, consisting mainly of tables giving the value of funds devoted to education, the amount of tax receipts, and the apportionment of state school money to the several counties.

Mines and mining (6 pages).—Gives a textual account of mining in the state and the need for and creation of the state mining bureau.

Earnings and employments (15 pages).—Under this head is given a wholly statistical account of the wages paid employes in nearly all the branches of manufacturing industries of the state and in a large number of other selected occupations. The tables give the amount of wages paid, by occupations, and whether maximum, minimum, or average, or with or without board. Separate tables show the wages of employes in mines and in transportation. Daily average wages are given by occupations. A total gives the number, the wages and hours of labor of employes of street railway companies in San Francisco, Los Angeles, and Santa Rosa, by companies. A separate table gives the same for employes of the Central Pacific railroad. The final table gives by age, sex, and nationality the number of employes engaged in each occupation in the state.

Labor-saving machinery (3 pages).—This includes a general textual consideration of the factory system. A table taken from the Massachusetts census report of 1875, showing the increased power of production through the use of machinery, gives for three industries for the years 1845, 1855, 1865, and 1875, the number of establishments considered, the number of employes, the value of the goods manufactured, etc.

Recommendations (3 pages).—Under this heading are given drafts of three acts prepared by the bureau, relating to employers' liability, mechanics' liens, and cooperative unions, with recommendations for their passage by the legislature.

Appendix: The manufacturing industry (15 pages).—This presents a textual and statistical study of manufactures in the United States from returns of the United States censuses for 1870 and 1880, showing the relation of wages, raw materials, etc., to the total product; and also the composition of the laboring classes according to sex, age, and nationality. Tables show by classes the number of employes, the amount paid in wages, the value of materials used and of the product, and the proportion that each element bears to the value of the product for the years 1870, 1880, 1881, 1882, and 1883; the increase in the manufacturing industry from 1850 to 1883, by varying periods; the rank of the several states in population, and in agriculture and manufactures, with value of products and amount of capital invested, etc. Tables also show the total number of employes and the per cent. of men, women, and children, and their nationalities by totals and percentages, by industries, and also by states.

Appendix: The cost of living, etc. (25 pages).—A textual and statistical treatment of rates of wages and the price of commodities in various countries. The tables give the rate of wages by occupations and the prices of commodities, by articles, in New York, Chicago, San Francisco, England, Ireland, Scotland, Germany, France, Spain, Italy, Belgium, Switzerland, and Denmark, and in a number of cities of Europe.

SECOND BIENNIAL REPORT, 1885 AND 1886.—[746 PAGES.]

Work of the bureau (27 pages).—A general consideration of the work of the bureau and of the labor question is here presented. There are also given the act establishing the bureau, a list of state labor bureaus, the New York act creating a state board of arbitration, the platform of the Knights of Labor, and a list of the federated trades in the state, as far as obtained. A table shows the rates of wages and hours of labor in a large number of establishments.

Agricultural (33 pages).—This is a textual and statistical consideration of agriculture in the state. A set of tables gives by years, 1871 to 1885, the amount of green fruit, canned goods, raisins, and green garden vegetables shipped to the eastern states by rail. Another set shows the number of acres sown, and the average production per acre, 1885, of various grains and of hay; the yield of hops, in bales, of California, Oregon, and Washington, and the price of hops in the San Francisco market by years, 1864 to 1886; also the acreage and yield of hops of the best producing sections of New York, by counties, 1879, and the production of the various states and of foreign countries. There is also given a report of testimony concerning the supply of labor for the fruit harvest of 1886; the average wages of farm laborers for various years, 1882 to 1886, by sections of the country and by states, showing the increase or decrease, and the same information, separately, for harvest times; the rate of wages, with and without board, of farm laborers in European countries; and the number of Chinese in the state, by counties and occupations. Statistics also show the amount of fruit canned during 1885, by kinds.

Railroad transportation (13 pages).—A statistical treatment of railroads in the state, showing, by roads, their capital stock, number of miles of road owned and operated, the traffic, and the average wages of employes, etc.

Chinese labor and Chinese mode of living (38 pages).—This is a mainly textual treatment of the Chinese problem in the state, embodying a report of a special committee appointed by the city of San Francisco. Short tables give the wages paid Chinese, by occupations, their cost of living, and the number of Chinese in different states and territories; also the number of Indians out of tribal relations, and of Japanese in the country, by states and territories. Tables show the number of bunks in the public opium resorts of Chinatown, the amount of air space in their sleeping and living apartments, the number of opium joints, the number of manufactories and the number employed therein, and the number of barricaded gambling dens in San Francisco.

Convict labor (21 pages).—Presents a general consideration of convict labor in the state. Short tables, interspersed throughout the text, give the price paid for prison labor in various occupations.

Comparison of wages paid in various states and in California (6 pages).—This consists of tables giving wages of employes, by industries and occupations, in California, in various other states, and in Great Britain, 1885; and wages in flour mills of California and Colorado for the years 1871 to 1880. A table shows the comparative wages paid in the general trades in California, New York, and in foreign countries, by occupations.

Cost of living (8 pages).—Three bills of fare of restaurants, a table of rents, and the retail prices, by months, of different commodities in the city and county of San Francisco are here given for the year ending October 31, 1886.

California: History and description of each county (172 pages).—A history and description of each county of the state, and a statement of the taxable wealth of each in 1885. The cost of planting a vineyard and an orange farm of 10 acres in Los Angeles county is given; also the number of manufacturing establishments, the number of men employed, the value of products, etc., for San Francisco.

Investigations (118 pages).—This is a textual report of three investigations made by the bureau, viz: an inquiry as to the condition of the laborers employed by the contractors on the sea-wall at San Francisco; an investigation with the view of

ascertaining the position of the boot and shoe trade as regards the Chinese, and of devising means of ousting them from the trade; and an inquiry into the cigar industry, its growth, and the condition of those employed in it. A table gives the number of cigars and cigarettes manufactured in San Francisco during the year ending June 30, 1886.

Addresses (78 pages).—A report of the addresses delivered at the third annual meeting of the national convention of chiefs of the various state bureaus of labor held at Boston, 1885, is here given. The papers were: The influence of inventions upon civilization, by Mr. Chauncey Smith; Statistics of consumption, by Edward Atkinson, containing tables showing the average cost of food for fourteen persons, mostly Irish, in a boarding-house, and for a French Canadian family of ten persons in Massachusetts; The chemistry and economy of foods, by Prof. W. O. Atwater, containing tables showing the weight of compounds in the human body, the percentage composition of foods, the per cent. of indigestible matter in various foods, the comparative cost of protein in food materials, the amount of nutrients in different foods, standards of protein, fat, and carbohydrates for daily rations for different ages, and sample bills of fare, some of which are for a fixed cost. The tenement-house problem, by Charles F. Wingate, containing two short tables giving the per cent. of buildings in New York in fair, good, or bad condition, and the total deaths in New York for the years 1880 to 1884, and the percentage of deaths occurring in tenements; and Common schools and the labor question, by Prof. Alexander Johnston, are two addresses delivered at the fourth annual convention held at Trenton, New Jersey, June 1, 2, and 3, 1886, and inserted here.

A manual of distributive cooperation (67 pages).—This is a complete descriptive history, with statistical details, of the workings of cooperation throughout the world, being a reproduction of the report of the Massachusetts bureau of labor, 1886, compiled by Carroll D. Wright, its commissioner. It gives a comprehensive, historical, and detailed description of distributive cooperation in Great Britain, to which are added, as an appendix, an account of cooperative production in most of the European countries and a brief account of the Atlington Cooperative Association at Lawrence, Mass. Authorities are noted throughout. Short tables interspersed throughout the text illustrate the growth and strength of the movement. One table gives the existing registered cooperative societies or stores established before 1844, by name, date when established, and when profits were first divided on purchases; others present statistics of the Rochdale Equitable Pioneers, by years, 1844 to 1867, showing the number of members, the value of their funds, amount of business done, and profits; the departments added to their original plan of dealing in the leading staple groceries, such as flour, oatmeal, sugar, and butter; and their balance sheet for 1884. The method of organization and management of the retail store is given in detail as a manual for reference for similar attempts. Wholesale stores are treated in a similar, but not as elaborate way. Two tables exhibit the financial relations between the retail societies and the English wholesale societies, by districts, for the year ending December 31, 1883. The result of cooperative attempts in production is shown by a table giving the percentage of profits realized by departments. Tables give, for the years 1862 to 1883, the number of cooperative societies, the number of their members, their capital, sales, profits, expenses, etc., in the United Kingdom of Great Britain and Ireland, in Great Britain, and, separately, in England, Wales, Scotland, and Ireland (in the last two for 1872 only). The years 1872 and 1883 are compared in separate tables to show the growth of cooperation. Tables show the amount of sales of all general distributive societies on the Rochdale plan, whose sales during the years 1866 to 1883 exceeded £200,000 a year; also the progress of the English Wholesale Society, from its commencement in March, 1864, to June, 1885, giving the departments and branches added, the number of shares taken up, the number of members, and the amount of its capital, net sales, expenses, profits, etc.; and in the same way of the Scottish Wholesale Society, showing its growth from 1869 to the close of 1883. The cooperative societies are bound together by the organization of the Cooperative Union. Statistics of this union for

the years 1869 to 1885 are given, showing the number of societies and members belonging to it, the places where congresses met, the number of societies represented, etc. A table gives the names and dates of organization of the cooperative productive societies in Great Britain, 1884, the nature of the business done, their yearly sales, the amount of their profits, and their methods of dividing profits. A similar table gives cooperative societies in Paris. Lists of cooperative societies in Germany are given, classified as people's banks, consumers' societies, and trade societies. A short table also gives the amount of capital invested in cooperative societies in Switzerland. Another gives the number of cooperative societies established since 1876 in the Netherlands, by kinds of societies. The progress of the Arlington Cooperative Society is shown by the amount of its sales, profits, expenses, etc.

Wages paid, hours of labor, and classes of labor in California (42 pages).—This is a textual abstract for the leading industries of the state, giving the amount of wages paid, the hours of labor, the number of employes, and other statements with reference to workingmen, obtained through a canvass among the leading business firms.

Appendix: Assessors' returns (116 pages).—Consists of reports from the assessors of each county, in reply to circulars requesting a large number of returns concerning labor, manufactures, and agriculture. They are printed as received and are incomplete.

THIRD BIENNIAL REPORT, 1887 AND 1888.—[378 PAGES.]

Introduction (7 pages).—Contains suggestions and recommendations concerning the collection of statistics by mail, the utility of labor bureaus, and the necessity for annual reports.

Workingwomen (95 pages).—This embraces a textual and statistical investigation of the condition of women wage-earners, chiefly in San Francisco, their wages, hours of labor, and personal and financial condition; concerning protective and benevolent associations of the state and the physical and social condition of workingwomen. Returns from a number of establishments are first given, showing the number of employes, their wages, etc. The weekly wages, hours of labor, the ages of employes at the present time and when commencing work, their conjugal condition, whether boarding or with family, their expenses, savings, nationality, nationality of parents, etc., are given by occupations and individuals. A separate table gives their wages and hours of labor by occupations. Rents in San Francisco are given. An investigation was made, through personal questioning of 527 prostitutes, to ascertain whether their ranks were recruited from workingwomen. A table gives the former occupations of 441 who answered.

Trades unions and labor organizations (84 pages).—This comprises a textual and statistical account of trades unions and labor organizations in the state, their objects and condition, and a consideration of wages, Chinese unions, and strikes. Tables give a list of unions in Los Angeles and the number of their members; lists of federated trades and trades unions in San Francisco, of the wharf and wave federation, waterfront unions, and brewers' organizations. The monthly wages of officers and seamen at home and abroad and the cost of maintenance per man per day are given. A complete list of labor organizations in the state, their location, the dates of their organization, the number of their members, the amount of dues required, and the proportion of members to outside laborers are given. The daily wages and hours of labor of organized and unorganized labor are given by occupations. A comparison of the weekly wages paid in California with those paid in other states and in foreign countries is made by occupations. A table from the Third Annual Report of the United States Department of Labor gives the number of strikes in the United States, the number of establishments involved, and the average number of establishments involved, each year, 1881 to 1886. Other tables give the number of strikes in Europe each year, 1870 to 1879, the number of weeks lost each year, and the number of strikes during the period, by industries. A textual account of strikes in San Francisco is given. Tables from the Third Annual Report of the United States Department of Labor give, by years and industries, the details of each strike occurring

in the State, 1881 to 1886, showing for each its location, duration, date of commencement, the number of employes, their wages and hours of labor before and after the strike, the cost of the strike to the employes and the employers, etc. A short table showing the cost of living of a Chinaman is given, and the topic is concluded by remarks and suggestions from trades unions and from workmen.

Apprenticeship (34 pages).—This consists of a textual and statistical survey of the conditions which surround young men who desire to learn a trade. The text includes copies of the law of the state regarding apprentices and of various regulations made by labor organizations. Tables give the former occupations of those received as convicts at the state prisons, at San Quentin and at Folsom, 1887, showing the proportion having an occupation and the number able to read and write; also, by occupations, for 1887 and 1888, the number of persons applying for situations through advertisements in a newspaper. A short consideration of the foreign supply of mechanics is given, followed by tables showing the number of voters registered in San Francisco in 1886, their occupations and nationalities, and the number of native and foreign born artisans. A table also gives a list of trades unions regulating the employment of apprentices, and their regulations. Tables give the total number of immigrants from Europe, 1873 to 1886, by years and occupations, by years and sex, and whether skilled or unskilled workmen, or without occupation, etc.

Manual and technical training (65 pages).—Under this title is embraced a textual inquiry concerning the utility of manual training schools. Answers from a large number of persons interested in education, whose views were solicited, are printed in full. Manual training in England and in Europe is also considered. Sketches of the principal manual training schools in the states are given. Five pages are taken up with tables giving the items of cost of an experimental training school, the different sets of tools necessary, and the cost of maintaining the Baltimore training school. Tables from the report of the United States Commissioner of Education for 1885-'86 give the names of fourteen manual training schools, the industries taught, and the year each was established; the number of students, instructors, and institutions of business, or commercial colleges, 1876 to 1880, and a summary showing the number of industrial training schools, the number of pupils, etc., and the names of forty-eight industrial training schools and the industries taught in each. The programme of the Free Kindergarten School of California is given. Tables give the total enrollment in and receipts of kindergartens in San Francisco and statistics of kindergartens for 1886-'87, as reported to the United States Bureau of Education, giving the name and address of each school, when established, the number of pupils, etc.

Building and loan associations and cooperative farming (47 pages).—This is a textual consideration of the workings of and benefits to be derived from building and loan associations, a consideration of cooperative farming in California, the views of Senator Stanford on cooperation, and the text of a bill introduced by him in Congress for the formation of cooperative enterprises in the District of Columbia. Ten pages are in tables giving a list of building, loan, and savings associations in California, the date of incorporation of each, its character, number of shares, number of shareholders, assets, etc.

Public investigations by the bureau (16 pages).—Consists of a textual report of investigations made concerning the condition of men working on vessels engaged in the coastwise trade and on the city front, San Francisco, of men working for "sweaters," of the men engaged in a strike at San Pedro, and of male and female printers. A table gives the number of employes in printing houses of San Francisco and whether union or non-union men.

Appendix: Labor laws (11 pages).—This is a compilation of the building and loan association laws of Massachusetts and Maine, the apprentice laws of New York, the law of Massachusetts relating to the employment of children who can not read and write in the English language, and the law of Massachusetts relating to prevention of accidents in factories.

FOURTH BIENNIAL REPORT, 1889 AND 1890.—[347 PAGES.]

Manufactories (36 pages).—Under this head is given a textual description of the history and condition of manufacture, and of each mill engaged in the manufacture of woollen goods, cotton goods, jute, ramie, flax, and silk, in the state, showing, for each mill, the amount of capital invested, the amount of machinery used, the number of employes, etc. Short tables show the cost of the erection of a jute mill, by items, the amount of jute manufactured at San Quentin, the value of the same, the expense of its manufacture, etc., for the years 1887, 1888, and 1889.

Miscellaneous industries (56 pages).—This is a historical, descriptive, and statistical consideration of the manufacture or production of beet sugar, oil, glass, cigars, leather, boots and shoes, and canned fruits, in the state. The consideration of the beet sugar industry includes an account of its extent in European countries, showing the production of beet sugar in Europe for the years 1887, 1888, and 1889; in France for 1837 to 1887, by decades, and for 1889; and in Germany, Austria-Hungary, and Russia and Poland for 1877 and 1887; also an account of the efforts for the production of sugar beets in the United States, with short tables showing the expenses by items, the quantity of sugar produced, the number of men employed, and the average price of beets, etc., at the Western Beet Sugar Company's factory at Watsonville, Santa Cruz county, California, for 1888 and 1889, and the average cost of manufacture per ton in 1889, by items; an account of the factory at Grand Island, Nebraska; the daily expenses of the establishment at Alvarado, California, by items; an estimate of the expenses and profits of raising beets; and hints in regard to the best methods of beet culture.

The treatment of oil includes an account of the production of the various mineral and vegetable oils, an account of companies engaged in its production, and short tables showing the number of gallons of petroleum produced in California, each year, from 1879 to 1889; the amount of whale and sperm oil in barrels for the years 1887, 1888, and 1889; and the amount of oil of various kinds imported in 1888 and 1889.

The treatment of glass gives an account of the conditions of glass manufacture in the state, and short tables showing the value of glass products in seven states according to the census of 1880; the number of employes and their average wages, by occupations, in the single glass factory of California; and the weight and value of window glass imported each month from December, 1887, to October, 1889.

Under the head of cigar manufacture the text gives a general description of the condition of the industry; this is followed by short tables showing the value of revenue stamps sold each month in California from 1881 to 1889; the number of establishments, the amount of tobacco used, and the number of cigars and cigarettes produced from 1884 to 1889; the number of factories; the value of stamps sold, and the number of cigars manufactured in the fourth revenue district, including Sacramento, from 1887 to 1889; and the number of hands employed, the amount paid in wages, and the amount of capital invested in the manufacture of cigars and of tobacco in the United States, for the years 1860, 1870, and 1880. Opinions of several manufacturers are added, showing the decline of the industry to be the result of agitation against Chinese-made cigars.

Under the head of leather manufacture, in addition to text, tables give the value of hides, leather, furs, etc., imported by American and foreign vessels into San Francisco each month from 1887 to 1889; receipts of hides in San Francisco from 1887 to 1889; receipts of hides in 1888 and 1889, by sources of supply; the value of imports of hides into the United States for 1860 and 1870, and from 1880 to 1889; the wages of employes, by occupations, in tanneries in California, New York, Pennsylvania, and Ohio; the number of pounds of leather received in California from 1876 to 1889; the quantity and value of leather, and the value of harness, saddles, and all other leather goods exported by California each month from 1887 to 1889.

Under boot and shoe manufacture tables give the number of cases of boots and shoes imported from 1876 to 1889; the value of shipments to the state from the east

from 1887 to 1889; the number of pairs and the value of shoes exported by vessels each month from 1887 to 1889; and the wages of employes, by occupations, in California, Massachusetts, Ohio, and Maryland.

The consideration of fruit canning includes a statement of the condition of each firm, its capital, the number of employes, their wages and hours of labor, etc., and gives a list of the leading canneries in the state; the tables show the amount of fruit packed in 1888; the quantity of each kind of fruit shipped in 1887; the annual quantity packed by canneries of San Francisco from 1875 to 1888, and the amount of capital invested in the canneries of San Francisco, and the capacity of each.

Cooperative insurance associations (116 pages).—This comprises a comprehensive textual consideration of the various kinds of cooperative insurance companies in the state and of the principal cooperative insurance companies in the United States. There is given a description of the methods of operation of the different kinds of companies; a description of fraternal societies, consisting of a paper on Cooperative fraternity, by William H. Barnes; an account of the Independent Order of Odd-Fellows, with tables showing the assets and liabilities of the order, the condition of the grand lodge of California in 1890, showing the number relieved, the amount paid out, etc.; an account of the Chosen Friends, with a table showing the total benefits paid to May 31, 1890, and the amount of income in 1889; and similar accounts of the American Legion of Honor, the Knights of Labor, the Ancient Order of United Workmen, the Workmen's Guarantee Fund Association, the Ancient Order of Foresters, the Royal Arcanum, the Knights of Pythias Endowment Rank, the Knights and Ladies of Honor, the Young Men's Institute, the Young Men's Catholic Union, and of the Improved Order of Red Men's Endowment Fund Association are here presented. In addition to tables showing the amount of income and expenditure of each, other tables give the number of Knights of Labor in California, the membership of several of these orders for a number of years, the amount of benefits paid, etc. Testimony of chief officials explains the working of each society. Various assessment companies are treated in a similar manner. Considerable space is devoted to the exposure of dishonest endowment associations and to testimony regarding endowment associations in general. Short tables give the membership of various associations, the financial inducements offered members, the amount of assessments, profits, etc. Brief mention is made of government insurance in foreign countries.

Building and loan associations (96 pages).—Under this title are given a textual consideration of the various kinds of building and loan associations; a statement of their methods of operation; an account of failures which have occurred in California; reports of secretaries of different institutions on the methods employed for dividing profits; a consideration of the insecurity of a number of national building and loan associations, with the objection to their plan of operation; the testimony of witnesses regarding the purposes and practices of the American Building and Loan Association, of Minneapolis, Minnesota; and statistical tables giving the name, location, date of incorporation, amount of capital, the number of shares, the largest, smallest, average, and aggregate amount of loans made, the number of shareholders and of borrowers, classified by sex and industrial condition, the rate of interest, premiums, etc., of each building and loan association in the state.

Investigations (15 pages).—Under this head is comprised a textual report of the results of an investigation made by the commissioner into the condition of laborers in San Francisco and Oakland laundries, Chinese cigar factories, and in the Napa Woollen Mill, and of the strike of the stonecutters employed on the capitol grounds. A short table gives the value of cigars made in San Francisco each year from 1881 to 1889.

Wages and hours of labor, and inspection of workshops (12 pages).—This is a compilation of the laws of the state regulating the sanitation of workshops and the employment of children, and a statistical table giving, by industries and establishments, the number of employes (men, women, and boys), their average weekly wages and hours of labor, and the general sanitary condition of the buildings.

COLORADO.

FIRST BIENNIAL REPORT, 1887 AND 1888.—[536 PAGES.]

Act establishing the bureau of labor statistics in Colorado (4 pages).—This gives the text of the act to establish and support a bureau of labor statistics approved March 24, 1887.

Bureaus of labor statistics (31 pages).—This subject embraces a general textual consideration of the necessity and utility of labor bureaus, a list of the state labor bureaus with dates of establishment, and a list of annual conventions of chiefs of labor bureaus, including the opening address of Carroll D. Wright, delivered at the fifth annual convention; the paper by C. C. Bonney, of Chicago, entitled *Statistics as a basis of legislation*, read at the same convention; and a paper by T. V. Powderly, entitled *Settle the apprenticeship question by inaugurating industrial schools*, read at the sixth annual convention.

The labor movement (76 pages).—This includes a general textual and historical consideration of the labor movement both in this country and in Europe, with a series of court decisions relating to conspiracies in various states, and the text of the law of New Jersey on the subject. Brief sketches are given of the principal labor organizations of the United States organized on a national basis, and of the several labor organizations of the state. Five tables, covering ten pages, give lists of Grange lodges, Knights of Labor assemblies, trades unions, and other organizations of the state, showing their location, date of organization, membership when organized, and present membership; a brief analysis of the tables follows.

Strikes and lockouts (43 pages).—Under this heading are included two statistical tables, ten pages in length, taken from the third annual report of the United States Department of Labor (*Strikes and Lockouts, 1887*), giving strikes and lockouts occurring in the state from 1881 to 1886, by years and industries, showing their locality, causes, dates and duration, whether ordered by labor organizations or not, number of establishments involved, number of employes before and after strike, the number striking and involved, the wages and weekly hours of labor before and after strike, result of strike or lockout, and losses to employers and employes, with a recapitulation for all years, by industries. There is given textually a brief mention of strikes occurring in the state in 1887 and 1888, and accounts of four of the principal strikes included in the tables.

Arbitration (40 pages).—This subject comprises a textual sketch of arbitration in Europe and in the United States, by countries and states, and the views on the subject of 181 employers in the state, whose opinions were solicited.

Employers' liability (31 pages).—A textual consideration is given of the liability of employers for injuries to their employes, based on the report of the Massachusetts bureau of labor for 1883, giving the laws on the subject in foreign countries and in the different states of the Union. Two short tables give for the state the daily wages of persons employed in occupations involving danger, and the number killed and injured by railroad accidents during 1884, 1885, and 1886. Views of employers on the subject of liability for injuries are added.

Employers' returns (17 pages).—This is a textual consideration of returns from circulars sent to mine operators, and a short table, based on said returns, showing the highest and lowest daily wages paid mine employes in the state, by occupations.

Wageworkers (127 pages).—A textual and statistical consideration of the condition of wageworkers of the state, based on returns from blanks sent to employes, is presented under this topic. The text treats of employment offices, the lien law, the labor of women, inspection of mines and steamboilers, the licensing of stationary engineers, the wages paid to workingmen, their cost of living, etc., including views of employes on matters of interest to wageworkers. The tables, 34 pages in length and interspersed throughout the text, give, for individuals, their occupation, conjugal condition,

hours of labor, wages, earnings, cost of living, loss of time, etc.; returns relating to ownership of homes, and payment of wages are also included; average prices of commodities, by counties of the state and in fifteen cities throughout the country; wages and hours of labor, by occupations, in various industries and by detailed occupations for employes in mines, quarries, and railroads (the last by names of roads). Weekly wages and cost of living of individual female employes, by occupations, in the city of Denver, are also given.

Unpublished census statistics for 1885 (20 pages).—The information under this head is almost wholly given in statistical tables showing the population of the state, by towns, cities, and counties, and by race, sex, age, and conjugal condition; the number of farms and the yield of various farm products in 1879 and 1884; the average yield per acre of the cereals in the state for 1884 and in the United States for 1879; the value of orchard and dairy products and of live stock for 1879 and 1885; the number of manufacturing establishments, their employes (men, women, and children), and value of products, etc., for 1880 and 1885; the number of mines and quarries, their product, etc., for 1880 and 1885; and the amount of water and steam power used in certain selected industries in 1885.

Convict labor (90 pages).—The above subject embraces a textual and statistical consideration of convict labor in all the states, based mainly on the second annual report of the United States Bureau of Labor, 1886 (Convict Labor). Tables show the average number of prisoners in the state, by years, from 1877 to 1887; the cost of maintaining the state penitentiary from 1879 to 1887; the number of convicts, the total cost, and the per capita cost of maintenance in twenty-five states, with colored diagram showing the comparative cost per capita of maintenance of such convicts; the same for fifteen institutions in different states for 1887; the number of persons imprisoned in county jails of the state, by counties, showing their sex, nativity, conjugal condition, and the total cost of maintenance; also, by crimes committed, the ages and nativities, and the former occupations of those confined in the Arapahoe county jail in 1887. A table, with a colored diagram, shows the number of inmates and the total and per capita cost of maintenance of convicts in the reform and industrial schools of sixteen states in 1886, and of eleven states in 1887.

Appendix: Labor laws of Colorado, etc. (30 pages).—This is a compilation of the laws of the state relating to the employment of apprentices; to convict labor; prohibiting blacklisting; providing for the employment and protection of children; for licensing detectives; for exemption from execution and attachment; for the appointment of labor day; and requiring employers to provide suitable seats for female employes. The organic law of the councils of Prud'hommes, of Geneva, Switzerland, created for the purpose of adjusting the differences which arise between employers and employes relating to labor, is given; also a letter from the former United States Marshal Smith, relative to the D. & R. G. railroad strike.

SECOND BIENNIAL REPORT, 1889 AND 1890.—[75 PAGES.]

Introductory (2 pages).—This contains a textual consideration of the contents of the report and recommendations made by the commissioner.

Employers' liability (10 pages).—This chapter gives a textual consideration of the employers' liability law of Colorado and of points of law established by judicial decisions in other states.

Car-coupler accidents (12 pages).—Under this head are given statistics of railroad accidents in the state and a textual treatment of the necessity for better provision against car-coupling accidents. The hours of train service on railroads are considered, and a copy of the act of Ohio, enacted 1890, to provide against accidents on railroads and limit the hours of service, is included.

The detective system (7 pages).—This gives a textual consideration of the practice on the part of corporations of hiring private detectives. The treatment includes a copy of the law of New Jersey, 1890, regarding private detectives, and extracts from

newspapers commenting on the employment of Pinkerton detectives during the New York Central Railroad strike, 1890.

Deceiving workmen (3 pages).—Consists of textual comments on the pernicious practice indulged in by newspapers and real estate "boomers" in Colorado in making false promises of employment to workmen in other states, who have no means of knowing the actual condition of affairs relative to labor in the state.

Increase of crime (3 pages).—Presents a consideration of the increase of crime in the state; of the number of prisoners in jails; the number of arrests for drunkenness; and the proportion of taverns to the total population in several European countries.

Foreign immigration (4 pages).—This is a mainly textual consideration of immigration. A short table, compiled from official sources, gives the number of immigrants landed each year, from 1880 to 1889, classified as skilled laborers, miscellaneous, professional, and no occupation.

Employment offices (4 pages).—A textual consideration of the abuses of employment offices, and a copy of the act passed in 1889 regulating the business of employment and intelligence offices are here presented.

The Chinese of Colorado (10 pages).—A textual consideration of Chinese labor in Colorado is given. The treatment includes descriptions of raids on Chinese dens in New York city, 1890; statements of employers as to the effect of Chinese competition; and a statement of the number of Chinese in Denver, by occupations.

Laws regulating labor (16 pages).—This is a compilation of the laws enacted in 1889 relating to conspiracy, providing for licensing intelligence and employment offices, relating to the attachment of wages, and to mechanics' liens.

CONNECTICUT.

FIRST ANNUAL REPORT, 1885.—[158 PAGES.]

Wages and profits (43 pages).—This is a statement of the general lines of investigation pursued by the bureau; to which are added discussions on the inequality of wages and on the difficulty experienced in determining the various standards of living, with comparisons. A textual consideration of labor problems follows, embracing discussions of profits, cooperation, organization of labor, etc.

Cheap labor (26 pages).—Under this head are presented accounts of the various forms of cheap labor in America, viz: child and untrained labor, factory labor of women, labor of foreigners, of convicts, labor-saving machinery, and long hours.

Manner of payment (15 pages).—This is a textual consideration of the time work, piece work, and contract systems, and of the manner and time of payment under each, exhibiting what appear to be the evils and advantages of each system. Mechanics' liens and companies' stores are also discussed.

Health and morals (20 pages).—This is a general consideration of the health and morals of employes, treating of the effect of occupations upon health; accidents, under which heading is given the law providing for ways of egress from factories in case of fire; inspection of factories; the sanitary condition of laborers' homes; education; and the relations between employers and employes.

The work of the bureau (11 pages).—Under this head is presented a textual summary of the proper aims of a bureau of labor statistics, together with remarks concerning the methods and subjects of investigations.

Appendix (30 pages).—The information gathered by the bureau from various sources is here presented in six statistical tables. Table I, compiled from the United States census of 1880 and from data furnished by employers, gives, by industries, a comparison of the number of employes, their wages, and the time lost for the years 1880 and 1885. Table II shows the annual earnings and average number of employes for 1880, by occupations. Table III presents statistics, furnished by town assessors, concerning workmen's homes. Table IV gives the proportion of child labor in different localities in 1880. Table V gives a comparison of laws relating to child labor in dif-

ferent states and countries; and Table VI, based on the report of the state board of health for 1884, shows the effect of occupations on health.

SECOND ANNUAL REPORT, 1886.—[170 PAGES.]

Summary of results (7 pages).—This is a textual summary of the results of statistical investigations made by the bureau during the year.

Labor legislation and its enforcement (15 pages).—This is a general consideration of the existing condition of labor, of the difficulties in the way of labor legislation, of the enforcement of labor laws, and of the legality and powers of labor organizations, including general remarks on blacklisting.

The credit system (30 pages).—Under this head is presented an enumeration of the advantages of the system of weekly payments of wages over the existing system of infrequent payment and the granting of credit to employes at company stores. Extracts from the communications of various employers and employes upon the subject, and the laws of Massachusetts and New Jersey relating to weekly payment and assignment of wages, respectively, are given.

Time and manner of payment (16 pages).—Tables based on returns from employers give statistics showing, by industries and counties, the number of establishments, number of employes, and the time and manner of payment of wages. A textual explanation of the tables, with notes, is given.

Employment of men, women and children (13 pages).—The statistical tables given under this head show the respective numbers of men, women, and children employed in the state, so far as reported, together with the manner and time of their payment.

Hours of labor (12 pages).—Tables giving statistics concerning the hours of labor of the employes referred to in the preceding tables.

Companies owning tenements, stores, or boardinghouses for employes (2 pages).—Short tables give, by counties, employers' returns on this subject.

Views of employers (17 pages).—Seventeen pages of text give the opinions of employers regarding the weekly payment of wages and the attachment of wages.

Credit and prices (11 pages).—The returns gathered from storekeepers are presented in tabulated and textual form; they show the effect of time of payment on the credit system, losses from debts, and comparisons of prices at cash and credit stores.

Employes' returns (26 pages).—Under this head two tables give the information furnished by labor organizations concerning the wages, sex, age, and hours of labor of employes in various small establishments throughout the state. These are followed by two long tables, with copious notes, showing the earnings, sex, and age of employes in textile mills in the state, and the earnings and condition of families in mill towns where children are largely employed.

Workingwomen in New Haven (3 pages).—Here is given the result of a canvass of employers and employes of New Haven, showing the number of women employed in certain leading industries, with their average weekly wages.

Laws on attachment of wages (5 pages).—A tabulated synopsis of the laws of various states relating to the attachment of wages, followed by abstracts of such laws.

THIRD ANNUAL REPORT, 1887.—[494 PAGES.]

Introduction (17 pages).—A statement of the real question at issue between employers and employes and an outline of the future investigations of the bureau.

Industrial legislation in Connecticut (254 pages).—A comprehensive textual review of industrial legislation in the state, from the settlement of the colony to 1887, under the following headings: Introduction, under which is given the constitution of the state; Encouragement of industries, including partnership and corporation laws; Regulation of prices of wages; Protection of consumers; and Legislation relating to education of children and servants; to tramps; to the suppression of slavery; to peddlers and hawkers; to the employment of apprentices; providing for exemption from execution and attachment; relating to liens on vessels and to mechanics'

liens; prohibiting the assignment of future earnings; providing for the exemption of property from taxation; regulating hours of labor; relating to savings and building associations; to railroads; providing for railroad taxation and for the supervision of railroads; relating to the protection of railroad property and employes; to state banks and trust companies; regulating the rate of interest; relating to dividends; to joint-stock corporations; to insolvent debtors; prohibiting injury to public and private property; regulating the assize of thread; relating to a bureau of labor statistics; requiring vaccination of employes in paper mills; regulating the payment of wages of employes; relating to the employment of children; to cooperative associations; to convict labor; providing for exemption from execution and foreign attachment; for the weekly payment of wages; prohibiting intimidation of voters; providing for inspection of factories; relating to imprisonment for debt; to laborers' claims on insolvent estates; providing for industrial education; for the protection of employes and employers; defining the liability of railroad employes; relating to private corporations; requiring fire escapes in factories and public buildings; providing for public libraries and reading rooms; for free text books and school supplies; for evening schools; relating to the attachment of wages; and to profit-sharing.

Papers on discontent among the laboring classes (72 pages).—Under this head are presented five papers, prepared at the request of the commissioner, on Discontent among the laboring classes, its extent, its causes, its remedies. These papers are written from the standpoints of a capitalist, of a knight of labor, of the land and labor party, of the more radical socialist party, and of a professional man.

Labor organizations in Connecticut (29 pages).—This is a general consideration of labor organizations in the state and contains copious extracts from their constitutions and declarations of principles.

Strikes and lockouts (83 pages).—Under this head are presented statistical tables, furnished by the United States Department of Labor, showing all available facts relating to strikes in Connecticut from 1881 to 1886 inclusive; various summaries and comments upon the tables are added by the state bureau. The tables give a list of all strikes and lockouts in the state, by years and industries, showing for each strike its cause, duration, and result, the number of establishments involved, the number of employes, their average wages and hours of labor before and after the strike, and the losses to employers and to employes. The summaries show the same for all industries by years, and for all years by industries; also the effect of all strikes on wages, by years; the number of strikes each year; the number of new employes brought from other places; the results of all strikes, by years; and the losses from all strikes for the period. The same information is also given concerning lockouts during the same period.

FOURTH ANNUAL REPORT, 1888.—[296 PAGES.]

Introduction (26 pages).—This is a textual review of the system of work carried on by the bureau during the year and includes some general remarks upon the effect of weekly payments, of the ten-hour law, and of blacklisting.

Manufacturers (63 pages).—A statistical inquiry, based on information secured directly from the books of ninety establishments in twenty-two lines of industry in 1887, to ascertain what proportion of production goes to labor and what proportion is employers' profits. The first table shows, for each industry, the number of establishments, their total capital, value of product and profit, the number of employes, and their total wages. The next table presents a comparison of the above statistics, with similar facts, for all establishments in Connecticut in 1880, taken from the United States census of that year. A table of 22 pages gives for each industry, by occupations, the number of employes, their manner of working, earnings, and the average number of days worked during the year. A set of tables gives a comparison

of the wages paid the last week in June, 1887, with the wages paid for the same time in 1860. Other tables give, by industries and occupations, the results shown by the comparative statistics preceding, and the prices of various necessary articles, in detail, in 1860 and 1887. Textual explanations accompany each table.

Receipts and expenses of wage-earners (39 pages).—This is a textual and statistical report of monthly returns made by workmen from all parts of the state, concerning their receipts and expenditures in detail. These returns are first presented arranged by individuals, showing their occupation, size of family, and expenses and receipts in detail. To this are added textual extracts from communications accompanying the monthly reports. Other tables give, by industries and occupations, the number and size of families reporting, with their yearly receipts and expenditures. In the same way are given the reports of 184 unmarried persons not included in the family table.

Agriculture (127 pages).—The statistics relating to agriculture in Connecticut gathered by the bureau during the year are here presented in tabulated form. The tables give for each county and town, by farms, the size of the farm and of the farmer's family, the rate of wages paid hired help, the amount of mortgage carried and of capital invested, and the receipts and expenditures of the farmers in detail. Summaries are also given for each county, by towns, and for the state, by counties.

Secret ballot (17 pages).—A statement of the conclusions reached by the commissioner, after careful study of the subject, with a transcript of the proposed bill concerning elections, illustrated by fac-similes of the tickets to be used and a diagram of the proposed voting place.

FIFTH ANNUAL REPORT, 1889.—[215 PAGES.]

Introduction (13 pages).—This is a statement of the general industrial condition of the state.

Origin, objects, and growth of bureaus of labor statistics (46 pages).—This is a textual consideration of labor bureaus, consisting chiefly of extracts from the address of Carroll D. Wright before the American Social Science Association; followed by a transcript of the minutes of the seventh annual convention of chiefs of labor bureaus held at Hartford in 1889, including a paper on child labor by Mrs. Florence Kelley-Wischnewetzky and the discussion following it. A list of the labor bureaus in the United States, with the dates of their organization, is also given.

Manufactures (21 pages).—The statistics of manufactures gathered during the year are presented in seven tables. These tables give the number of establishments considered, capital invested, value of product, cost of materials, number of employes, and their wages, with comparisons with the corresponding statistics for 1887, taken from the last report, and for 1880, taken from the United States census.

The fisheries industry (118 pages).—Sixty-three pages of this chapter are devoted to a general consideration of the history and development of the oyster industry of the state. The methods of propagating and gathering oysters, of destroying their enemies, and of locating oyster beds are described. The statistics relative to the oyster industry from May 1, 1888, to May 1, 1889, are presented in twenty tables, showing, by towns and localities, the amount of capital invested, the value of receipts, the amount paid in wages, the number of employes, the number of vessels, and a list of oyster beds and the area of each. The remainder of the chapter is made up of a textual consideration of the fish industry of the state, giving accounts of the different fishes caught, their uses, and the general condition of the fish industry; together with tables giving, by localities and also by kinds of fish, the amount of capital invested, the value of the catch and products, the number of vessels and employes, and the amount paid in wages. Each table is followed by extracts from reports made by men engaged in the different fisheries. In an appendix are given descriptions of natural oyster, clam, and mussel beds within town jurisdictions, as defined by decrees of the superior court. The report is accompanied by two maps of the oyster grounds belonging to the state.

SIXTH ANNUAL REPORT, 1890.—[336 PAGES.]

Introduction (25 pages).—This consists of a general textual consideration of the work of the bureau and of the condition of labor during the past year.

Manufactures (33 pages).—This part is composed of statistics relating to the manufacturing industries of the state, gathered by special agents of the bureau from 636 typical establishments in forty industries. The general tables show for each of the forty industries, the number of establishments, the number of employes, the amount of capital invested, the value of the goods manufactured, the value of the materials used, the cost of manufacture less rent, interest, and taxes, the amount paid for rent, interest, and taxes, for superintendence and for wages, the gross and net profits, and the number of persons employed in superintendence; the percentage of net profits of capital; the percentage of wages, and of superintendence of cost of goods manufactured; the percentage of value of stock and materials, of cost of manufacture (less rent, interest, and taxes), of rent, interest, and taxes, and of net profits of value of goods manufactured; and the percentage of cost of superintendence of wages. The same facts are presented for 22 industries, including 238 establishments, for 1888 and 1889 and for 21 industries, including 85 establishments, for 1887, 1888, and 1889, and the amount of capital, the value of goods manufactured and of materials used, the amount paid in wages, and the number of employes in 636 establishments for 1889, and in all establishments for 1880 (United States census) in 36 industries compared. Several short tables give recapitulations of the same facts for all the industries.

Street railways (32 pages).—This chapter consists of a textual and statistical consideration of the results of an investigation concerning the wages and hours of labor of employes on all the street railways in the state. The text includes comments on an analysis of the tables, and notes regarding the regulations of various companies. The tables give for each road its name and location, the wages, hours of labor, and time allowed for meals of employes, by occupations, and the actual number of hours worked each day in July, 1890, by drivers and conductors on the main line of the Hartford and Wethersfield Horse Railroad.

City, borough, and town employes (30 pages).—Under this head is given a mainly statistical consideration of the wages and method of employment (by contract or day) of city, borough, and town employes. The text consists of notes concerning the method of employment of labor in various towns and boroughs and the result of the method followed. The tables show, by localities, the number of employes and their wages by occupations.

Methods of preventing and adjusting labor difficulties, strikes, and lockouts (133 pages).—Three subjects are considered under this head. The first part consists of a detailed textual history of the organization and adoption of trade agreements by organizations of the manufacturers and employes engaged in the manufacture of hats at Danbury; a comprehensive history of the lockout of hat trimmers at Danbury, owing to an attempt to modify the trade agreement which had been adopted; and a description of the various associations of employes in the hat industry of Danbury. The second part relates to a system of gain-sharing put into operation in 1887 by the Yale and Towne Manufacturing Company at Stamford. The description of this system includes a paper on gain-sharing, relating to this experiment, read by Henry R. Towne at the Erie meeting of the American Society of Mechanical Engineers, with appendixes giving copies of the rules and an illustrative table, and an account of the strike which occurred among the employes in this establishment. Part third gives a consideration of the grievances of clerks at New Haven in their difficulty in obtaining employment after leaving one firm.

Appendix: Constitutions and by-laws of the Danbury trades associations (57 pages).

SEVENTH ANNUAL REPORT, 1891.—[2 VOLS., 1510 PAGES.]

Introduction (7 pages).—The introductory remarks give a brief review of the work performed by the bureau during the year.

Manufactures (46 pages).—The statistics contained in this part of the report relate to the manufacturing industries of the state, and are presented, in the main, on the same plan as that outlined under the title *Manufactures*, in the abstract of the report of the bureau for the year 1890.

Fraternal mutual benefit societies (1439 pages).—This part of the report presents the results of a comprehensive special inquiry, covering five years, into the growth and extent of cooperative benefit societies of all kinds doing business in the state. The whole subject has been separated into the following four groups: Life societies, sick and funeral benefit societies, trades unions with sick and funeral benefits, and endowment societies. A general analysis, covering 58 pages, and interspersed with numerous short tables summarizing the facts brought out by the investigation, precedes the tables. These tables are generally five in number, and show for each society the membership and fund; the receipts and expenditures; the plan of dues, fees, and benefits; the branches, by counties and years, and the occupations of members. A brief sketch accompanies the statistics of each society. The first table gives, by years, the number of members, the average age, the number of deaths, the number of suspensions and withdrawals, the total number of losses, and the total fund for 1891. The second table shows, by years, the receipts from fees, dues, and other sources, and in the case of life societies the amount received for assessments, the total amount received, the amount expended for death claims, for sick and funeral benefits, for management, and the total expenditures. The third table shows the amount of dues per year, the amount of sick benefits per week, the number of weeks in a year such benefits are paid, with the entire possible sum of such benefits per year, the amount of funeral benefits on the death of a member or a member's wife, and in many cases the practice concerning watchers for the sick, whether watching is obligatory upon the members of the society, or whether the watchers are paid out of the general fund. The fourth table shows the number of branches and of members, by counties and years, as far as such information could be obtained by the bureau. The fifth table, relating to the occupations of members, gives the percentage of members in various occupations, with a statement of the membership for 1891.

ILLINOIS.

FIRST BIENNIAL REPORT, 1879 AND 1880.—[239 PAGES.]

Introduction (14 pages).—The introductory remarks treat of the growth of manufactures in the state, labor legislation, rise in wages, the formation of the bureau and the plan of the work (including copies of the blank forms sent out to employers and employes. This part of the report also includes statistical tables, showing the comparative condition of the manufactures of Illinois, by counties for the years 1850, 1860, and 1870, and by industries for the years 1860 and 1870, and a similar table showing the manufactures of the city of Chicago for the year ending May 31, 1880, by industries.

Prison labor (57 pages).—This heading includes statistical tables, showing the earnings of convicts in the Joliet penitentiary for the fiscal years ending September 30, 1879, and September 30, 1880, respectively, the days worked by convicts during the same period, and the average contract price paid per man per day. The remainder of this part of the report is composed of matter compiled from the tenth and eleventh annual reports of the Massachusetts bureau of statistics of labor, and includes a textual consideration of the various systems of employment of convicts in the United

States and a discussion from the industrial standpoint of certain propositions intended to correct existing evils. It also embraces seven statistical tables, showing for each state the number of convicts employed in the several industries pursued and the system under which they are employed.

Earnings and expenses (47 pages).—This division of the report is composed of the tabulated returns received from individual employes and exhibits for each family the following facts: The number of adults and of young persons, respectively, in the family; number of adults and of young persons earning wages and amount of wages earned by each during the year, with total; classified expenses for the year, with total; surplus; deficit. Such information has been tabulated for each of 529 families, distributed among 37 different occupations. These tables are provided with a recapitulation, by occupations.

Employers' returns (35 pages).—This subject embraces statistical tables prepared from returns of employers, showing the number of employes in each establishment; the articles manufactured; the number and average weekly wages, in 1879, of persons in charge of departments, of skilled employes over 16 years of age, and of persons under 16 years of age; the number of weeks employed during the year; total wages paid during the year 1879; value of products for the fiscal year ending July 1, 1880, and the amount of capital invested.

Factory and workshop inspectors' reports (7 pages).—Under the above heading is embraced a tabular statement of trades and occupations, with number and sex of persons employed in Chicago; also a statement for certain selected occupations, showing the number of persons employed, by nationalities, in Chicago.

Communism in Illinois (7 pages).—This topic embraces a wholly textual consideration of the rise, growth, and nature of communism in Illinois.

Coal mines—inspectors' returns (23 pages).—This subject embraces the returns of the coal mine inspectors, a portion being for 1879 and the remainder for 1880.

Laws governing child labor in other states and countries (10 pages).—This heading embraces a digest of laws relative to the employment and education of young persons and children in Massachusetts, Maine, New Hampshire, Rhode Island, Connecticut, Pennsylvania, England, Prussia, France, Switzerland, Belgium, Norway, and Sweden.

Cooperation in Great Britain (7 pages).—Under this heading is embraced a short textual account of industrial and provident cooperative societies in Great Britain, illustrated by a half-page table, giving the statistics of such societies for the year 1873.

School savings banks (2 pages).—Contains a short textual account of school savings banks in Europe, quoted from a report by Oren W. Weaver.

Labor statistics: their value and the necessity of their collection (3 pages).—This part of the report is composed of extracts from various journals, commenting editorially or otherwise upon the value of such statistics.

Railroad employes (2 pages and 5 inserted tables).—Under this heading are given statistics compiled from the report of the railroad and warehouse commission, showing for the years 1877, 1878, 1879, and 1880, the number of employes, character of service, and average annual salaries paid for each of the several railroads in Illinois. Another table gives statistics for the Illinois Central Railroad Company for the year ending June 30, 1880.

The coal mining industry (9 pages).—Under the above heading is given the mine inspection law and remarks by the commission upon its provisions. Also information concerning the wages, homes, and social condition of miners.

In addition to the subjects already alluded to, there are short textual discussions of the following topics:

Cooperative and loan associations in Illinois (2 pages). **Truck stores: their present status (1 page).** **Trade societies and wages (4 pages).** **Municipal regulations relating to factories in Chicago (2 pages).** **Women's work (1 page).** **Recommendations (4 pages).**

SECOND BIENNIAL REPORT, 1881 AND 1882,—[484 PAGES.]

Introductory (6 pages).—This treats of the necessity which gave rise to the establishment of bureaus for the collection of statistics as to the condition of labor in this country, with a brief history of labor bureaus in several of the states.

The state of Illinois (6 pages).—This subject includes a brief textual and statistical account of the history and agricultural resources of the state. Short tables taken from United States census reports, and interspersed throughout the text, show the growth in population, by decades, from 1800 to 1880; the yield and value of the principal crops of the state, for the years 1860, 1870, and 1880; the average value of the yield per acre; the number of manufacturing establishments, the number of employes, the amount of wages paid, the amount of capital invested, the value of products, etc., for the years 1850, 1860, 1870, and 1880.

Statistics of population (36 pages).—This gives a tabular statement showing the population of the state, by counties and by decades, from 1800 to 1880, according to the United States censuses; and for 1880, by color and counties, the number of males over 21 years of age and their general nativity; the population, by age, sex, color, and nativity, and by counties and nativity.

Statistics of coal production (124 pages).—This comprises a textual and statistical account of mining in the state for the current year. There are also presented tabulated statements of the production of coal, by counties and by individual establishments in each county, showing the amount of capital invested in each, the number of men employed, the general character of each plant, the number of tons produced, the value of the product at the mines, together with a sketch of the peculiarities of the coal deposits in each county, and mention of the social condition of miners, and the prices paid for mining. The number of accidents and their causes are also given by counties. These data have been obtained from the reports of the mine inspectors of the state, who made a special survey of each county for the purpose of obtaining the exact details. A textual account is given of mining methods and machinery, with several cuts illustrating some of the methods of management for creating air currents in mines, and a practical method of suppressing fires in them. In addition to what is stated above, two short tables contrast the number of establishments, the number of employes, the quantity of product and its value at the mines for the years 1870, 1880, and 1882, the contrast between the last two years being by counties.

Statistics of manufactures (121 pages).—This constitutes a wholly statistical account of the manufactures of the state, embracing tables which exhibit the manufactures of the state, classified by industries and by counties, and show the number of establishments, the number of employes (males over 15, females over 15, and children under 15), the amounts paid for wages and material, the amount of capital invested, and the value of the product of every manufacturing enterprise in every county and in the state, as compiled by the United States Census Office, 1880. Supplemental to the general tables are specific statistics of some of the more important branches of manufacture, including agricultural implements, distilleries, meat packing, flour and grist mills, iron and steel, and other industries. The industries of Chicago are also treated of in a separate table.

The lead mines of Illinois (3 pages).—This gives a short textual and historical review of lead mining in the state.

Public indebtedness in Illinois (9 pages).—This subject embraces a textual and statistical history of the public indebtedness of the state. The text contains the constitutional provisions in regard to incurring debts. Tables give the debt of the state in 1842 and for what purposes it was incurred, and the resources available for its payment; also the state debt for various years from 1842 to 1870. A table also gives the existing (1880) local indebtedness of the state, by minor civil divisions, and the nature of the debt. The comparative indebtedness, state, county, and municipal, and per capita amount of the western states for 1870 and 1880 is given. The local indebtedness of the state is shown, by counties, in a final table.

Convict labor (2 pages).—A textual consideration of the employment of the criminals of the state is here presented.

Strikes and lockouts in Chicago and vicinity (27 pages).—Under this heading is given a textual account of strikes and lockouts in Chicago and vicinity during the year 1882. A short table gives a calculation of the cost of making a barrel of flour into bread in Chicago.

Statistics of wages, rents, and the cost of living (79 pages).—This chapter presents a statistical account of wages, rents, and cost of living in the state, based on returns from circulars sent to workmen and workingwomen of the different towns and cities of the state. In the tables are first given, for 44 selected occupations, the number of returns, days worked, and average wages and earnings of the heads of families, the income from other sources, the cost of living and items of expenditure, amount of rents paid, savings made, losses sustained, the number in family, their social condition, etc. In greater detail are given returns by industries and occupations, and by individuals for the same occupations, a brief textual analysis of each specific occupation to cover points not fully brought out by the tables being appended. The occupation, wages, and expenses of 21 families, by occupations, are given in a short table, accompanied by one page of text. In a separate table are given, by occupations, the average annual earnings of the better class of workmen in Chicago, the number in family, number of rooms occupied, and amount of rent paid. For the purpose of comparison, the average annual earnings in Chicago and New Jersey are given, by occupations. Wages of male and female clerks in retail stores of Chicago are also given. A separate chapter is devoted to railroad employes, giving, by roads and occupations, the number of officers and employes and their average yearly salaries.

Strikes, their evils and remedies, by William Halley (6 pages).—This is composed of a textual essay, in which the author suggests as remedies, state arbitration and society cooperation.

The school system in Illinois (8 pages).—Under this heading is embraced a textual and partially tabular summary of statistics relating to the schools of the state for the year ending June 30, 1882, from advance sheets of the report of the superintendent of public instruction, giving the number of pupils, schools, and teachers, the pay of teachers, cost of tuition of each pupil, occupations of graduates of the university, the value of school property, the amount expended for school purposes during each school year, etc.

State loan and building associations (9 pages).—This topic presents a textual and statistical account of building, loan, and savings associations in the state. Three tables give the names, location, dates of organization, number of shareholders, rate of interest, amount of assets and liabilities, and receipts and disbursements, etc., of the leading building associations in the state.

The labor laws of Illinois (29 pages).—This is a compilation of the laws providing for the health and safety of employes in coal mines; relating to the right of way of mining companies; regulating the hours of labor; relating to liens against railroads; to mechanics' liens; to limitations; to conspiracy; to master and servant; to employers' liability for injury to employes; providing for exemption from execution and attachment; relating to the attachment of wages and to the employment of apprentices; providing for the protection of children; and relating to building and loan associations, together with a syllabus of the leading cases wherein the supreme court of the state has declared its construction of mooted points. Municipal regulations of Chicago relating to factories are also included.

THIRD BIENNIAL REPORT, 1883 AND 1884.—[676 PAGES.]

Work, wages, and profits and earnings in the manufacturing industries (132 pages).—This consists of a mainly statistical inquiry, divided into three chapters: Time and wages, Earnings and profits, and an Industrial comparison between Illinois and

Massachusetts. The data for the tables are drawn from the United States census of 1880, and are uniform with those of Carroll D. Wright, who, as chief of the bureau of statistics of labor of Massachusetts, made a similar exhibit for the industries of that state in 1883. Under the head Time and wages preliminary totals give the number of establishments and number of employes in the state, and the number used in this presentation, by industries, and, for the latter, the amount of capital invested, the amount paid in wages, and the value of materials used and of the products. The main tables give, by industries and establishments, the average number of employes, the average daily wages of skilled mechanics and of ordinary laborers, their hours of labor, the time employed during the year, and whether running full, three-fourths, two-thirds, or one-half time, or idle; the number of skilled mechanics and of ordinary laborers classified separately, by industries, and average daily wages received; and the number of establishments paying certain wages, by industries and by groups of rates; by their daily running time, time run during the year; and by industries, the total number of employes, their average wages, and hours of labor.

Under Profits and earnings a general table gives, by industries and establishments, the average number of employes, the amount of capital invested, the total amount paid in wages, the value of the stock issued and of the product, the average yearly earnings of each employe, the average yearly product per employe, the estimated amount of interest and tax expenses, etc. Additional tables give summaries of the general table, by industries and by counties, the number of establishments making a profit or incurring a loss, by industries, and the number and per cent. of employes (men, women, and children), by industries.

Under Industrial comparison between Illinois and Massachusetts, tables give the number of establishments and of employes used in the comparison, and for each state the number and per cent. of employes, classified by wages received; the number of establishments, classified according to hours of labor; the aggregate and average working time and idleness in each, the average working time and earnings of each employe, by industries, the per cent. of establishments making a profit or incurring a loss, by industries, and, also by industries, the proportions of men, of women, and of children and youths employed in the establishments under consideration in the state and in all establishments in Massachusetts.

Earnings, expenses, and condition of workmen and their families (262 pages).—Under this heading will be found a comprehensive textual and statistical investigation concerning the earnings, expenses, cost of living, and condition of workmen in the state, based on returns from 2,129 families, embracing a total of 9,834 persons in fifty-one different places in the state visited by agents of the bureau in 1881. The treatment is divided into seven chapters, viz: Introduction, Earnings and expenses, Sources of the family income, Analyses of the family expenditures, Prices of commodities in Illinois and elsewhere, Hours of labor in Illinois, and Condition of families. Under the first head, Introduction, tables give the names and population of places visited, showing the number of families whose condition was investigated, the number of persons in them, and the average number of persons to each family; the average size of families, based upon the grouping of places according to population; the number of families visited, by places and occupations, by nationalities, and by nationalities and occupations, showing the percentage of the principal nationalities in different classes of industries, and the percentage of skilled and unskilled workers of different nationalities. Under the head Earnings and expenses the primary grouping of the main table of ninety pages is that by occupation, but under it each family is further characterized by its place of residence, nationality, number of persons of which it is composed, and size of the tenement in which it lives. These conditions being given, the separate and combined earnings of the various members of the family are shown; also the family expenditures subdivided into twelve general items; and the surplus or deficit resulting at the end of the year. Additional tables

show the relative number in each occupation who have been able to make more than sufficient for their expenses; the average size of families and of tenements in summarized form; and the average earnings and expenditures in each occupation. Under Sources of family income a comparison is made to determine what proportion of the heads of families are dependent upon the labor of their wives and children for the necessities of life, what proportion avail themselves of such assistance for the purpose of getting on in the world more rapidly, and how many are supporting their families by their individual earnings. Tables give the relative number of families supported by the husband alone, and those receiving assistance, by localities, by nationalities, and by occupations; the number of wives and children at work in each occupation, and their total income; the proportion of family income derived from the labor of women and children; the number of wives and of children at work and their earnings, by occupations, location, nationality, number in family, cost of living, etc.; the number and earnings of children at specified ages; the location of children at work, by ages; the number of children at work, at school, and at home, by locations, by nationalities, by occupations, and by nativity of parents. Under Analyses of family expenditures, tables show the average cost of different items of expenditure to families of workmen, by location and occupation; the average size of the family; the influence of trades unions upon earnings; the amounts expended for the support of unions; the percentage of expenditure for various items by families of workmen in Illinois, Massachusetts, Great Britain, and Prussia. Under Prices of commodities in Illinois and elsewhere, tables are given showing the prices of commodities in different towns and cities of the state in 1884; for Massachusetts for various years from 1860 to 1883; for Massachusetts, Illinois, and Great Britain for 1883-'84; and the earnings and expenses of workmen in twenty representative occupations in the state, of nineteen families in Massachusetts, and of sixteen families in Great Britain. Under Hours of labor in Illinois is a single table showing the average number of hours worked per day, and weeks worked per annum, together with the average weekly and yearly earnings of workmen, and the number in family, by occupations. Under Condition of families, are given details in regard to each of 167 representative families selected from all the families investigated, showing their nationality; occupation and annual earnings of the father; the earnings of other members of the family; the number, age, sex, and status of the children; the character of the home; articles of food; and, finally, the specific items of expense incurred in supporting the family for the year.

Statistics of coal production for 1884, and reports of mine inspectors (190 pages).—This embraces a general textual and statistical account of the mining industry in the state for 1884. A brief summary of mining laws passed by the legislature at its last session and the condition of miners in Streator and Bellville are given. The remainder consists almost entirely of the reports of the five mine inspectors. Summaries of the production of coal in 1883 and 1884, the number of accidents, etc., for the state, are first given. In the report are presented tabulated statements of the coal production for the current year, by counties and by individual establishments in each county, showing the number of men employed and the amount of capital invested in each, the general character of each plant, the number of tons produced, the value of the product at the mines, together with a sketch of the peculiarities of the coal deposits in each county, the number of days worked, number of accidents, etc.

The manufacture of drain tile (33 pages).—This topic presents a textual and statistical account of the manufacture of drain tile in the state, including a directory of manufacturers of drain tile for 1884. Six tables give, by counties, the number of factories from which returns were received, the number of employes, the average monthly wages for different classes of labor, the total amount paid for wages, the amount of capital invested, the value of product, the cost of fuel, the methods of manufacture, the kind of power used, etc., and the number of establishments in operation each year, 1875, 1880, and 1884.

Industrial, social, and economic conditions at Pullman, Ill. (17 pages).—This consists of a joint report, by the chiefs and commissioners of the various bureaus of labor present at the convention of 1884, of an investigation of the economic experiment conducted by the Pullman Palace Car Company. The sketch includes its history, methods of construction, a table giving its growth in population, and a brief discussion of wages, rents, expenses of living, health, etc.

FOURTH BIENNIAL REPORT, 1885 AND 1886.—[636 PAGES.]

Statistics of convict labor (140 pages).—A mainly textual, though partially statistical, consideration of the subject is here presented. The treatment is divided into three chapters and an appendix. The first chapter gives a textual account of the experience in the maintenance and management of the Illinois penitentiaries under the lease system from 1839 to 1867; under the public account system from 1867 to 1871; and under the contract system from 1871 to 1886. The second chapter gives statistics of prison labor in the United States. Table I gives the name and location of one hundred and eight institutions for 1886, being all in which productive industries are carried on, classified by states; and for each, shows the total number of convicts, the number at work, the character of the work and method of employment, and the number idle for want of employment and for other reasons. A recapitulation shows the same by states. Table II shows the number of convicts at work, by sex and systems of employment, for all institutions by industries, with a recapitulation by classes of industries. Table III shows the number of convicts employed, by systems and states. Tables IV and V show, for institutions, the number of convicts employed and the number under the contract system, the specific branch of industry engaged in, and the contract price paid per day, the data being arranged in Table IV by states, and in Table V by industries. Table IV is supplemented by a recapitulation by states. Table VI gives the number of convicts under contract, the price paid, and the estimated earnings per day in thirty-one penal institutions and for fifty-seven specified industries. Table VII shows, by states and institutions, the number of convicts and the number employed, by sex, with a recapitulation by kinds of institutions. Table VIII gives the number of convicts, by sex, employed in all institutions by kind of work done, and the same for unskilled occupations alone. Table IX gives the former occupations of 51,034 convicts as reported by themselves, with a recapitulation by classes of occupations. Table X gives for each penal institution of Illinois, by occupations, the total number of convicts and the number at work, by sex and by method of employment. Table XI shows, by industries, the number of convicts at work in Illinois, their sex and method of employment. The third chapter is a textual consideration of the advantages and disadvantages of the contract system as compared with other systems. It contains several part-page tables giving the number of pieces of cooperage manufactured, and sold in Chicago by a firm using contract convict labor at the Joliet penitentiary, each year, from 1875 to 1885. The same is given for fifteen private establishments in Chicago, and the two are compared in a third table. Other short tables give the average annual earnings of each of nine provision coopers in Chicago, each year, from 1875 to 1885; and of three beer-barrel coopers, each year, from 1876 to 1885; the market prices of different products from 1875 to 1885; and the price per piece paid for making barrels, and the average weekly earnings of coopers in ten different cities of the Union. The appendix gives an account of recent action of five other states in regard to convict labor.

Trade and labor organizations of Illinois (321 pages).—Under the above heading is embraced a comprehensive textual and statistical account of labor organizations in Illinois. There is first given, in 20 pages of text, a general consideration of the rise and development of labor organizations in England and in this country, which contains a short table, giving the names of the principal trades union societies in Great Britain and the number of their members. There are forty-nine tables bearing on a wide range of topics touching labor organizations. They are divided into different groups and chapters. The first gives the names, location, date of organization, num-

ber of members, the proportion of the trade organized, etc., of trades unions and kindred organizations, not including Knights of Labor, and of Knights of Labor separately, by local assemblies, in Illinois. The progress of organization is shown in tables giving the dates of organization, membership, etc., of trades unions and Knights of Labor, separately, with recapitulations by years, and the number of trades organized and Knights of Labor assemblies during the first six months of 1886. The local distribution of organizations is shown by tables giving the location and membership of organizations, by counties and by kind of organization. The nationality of members is given, by occupations. Tables give the occupations of 32,857 Knights of Labor and the occupations of 87,112 organized workmen in Illinois, with the relative number in Cook county, and the number of members who have homes and families, by occupations, and by counties and kind of organization. Tables also give for trades unionists and Knights of Labor by occupations, for railroad employes by roads, and for coal miners by counties, separately, the average wages paid, the average working time, how wages are paid, and the number in each occupation, by hours of labor worked and number of weeks worked. A summary shows, by occupations, for trades unionists and Knights of Labor how and when wages are paid. A table shows the location and particulars reported about existing truck stores. The average weekly wages of trades unionists, in 58 industries, are given, by occupations, each year, from 1882 to 1886; for railroad employes, by roads, each year, from 1880 to 1886; for miners, from 1880 to 1886; and for Knights of Labor, each year, from 1882 to 1886; and a summary gives a comparison of wages in 114 occupations for the years 1882 and 1886, with the percentage of increase or decrease. Under the head of strikes, tables give a record of the relations between members of employes' organizations and their employers, by counties and industries, from 1880 to 1886; a list of strikes of trades unions and Knights of Labor, the number of men striking, and the result of each strike, by industries and by causes, and the loss of wages occasioned by strikes, arranged by unions, industries, and localities. A consolidated summary shows, by industries, the number of strikes and strikers, the time lost, the value of time lost, and the amount of aid received during the strikes. The beneficiary features of trades unions, Knights of Labor, railroad employes' and coal miners' organizations are shown, for each separately, in a table giving, by organizations, the amounts paid in benefits, contributions, etc., and the character of benefit features maintained. A table gives, by industries, a list of boycotts engaged in by trades unions and Knights of Labor, showing the objects sought, the members engaged in them, their success, etc. A final table gives data concerning cooperative efforts among labor organizations in Illinois.

The eight-hour movement in Chicago, May, 1886 (34 pages).—This subject presents an account of the eight-hour movement in Illinois, including a brief textual sketch of the eight-hour movement abroad and in this country. Tables give, first, the industries represented in the returns, the number of establishments reporting in each, and the number of men employed; then, in detail, the number of men employed in each establishment from which returns were made, their hours of labor, their demands as to wages, etc., length of suspension, if any, to enforce such demands, the concessions made, number of men employed at the date of the returns, etc.; summaries are given by industries. The text includes remarks of employers concerning the eight-hour movement.

The fining system (28 pages).—This topic comprises a mainly textual account of the fining system as practiced in factories, stores, and other establishments in the state, including a statement of an employer on blacklisting as practiced by a union of manufacturers. Preliminary tables give for 23 factories which do not fine and for 14 which do, the number of employes in each (men, women, and children), and their wages and hours of labor. Other tables show transcripts from a number of envelopes transmitting earnings to employes, and indicating the frequency and amount of the fines which have been deducted.

Statistics of coal mining in Illinois (96 pages).—This constitutes the regular annual report of the bureau for the year ending July, 1886. Reports from the five district inspectors give, by counties and establishments, the number of miners, the number of days employed, the number of tons of coal mined and the value per ton, the character of the plant, etc., and a list of accidents, showing the character of the injury and the cause of the accident. Summaries for the state, compiled from the several reports, show the number of counties producing coal, the number of mines and miners, the total output, etc.; the number of mines by size or capacity, each year, from 1883 to 1886; the number of miners, each year, from 1884 to 1886; the annual output, by districts, for the years 1870, 1880, and 1882 to 1886; the average value of coal by districts for each year, from 1882 to 1886; the average price paid for mining, each year, from 1883 to 1886, by districts; the consumption of powder in 1886, by districts and counties; the number of fatal and non-fatal casualties, by districts and causes; a comparison of casualties each year, from 1883 to 1886; the number of escapement shafts and mechanical ventilators, from 1884 to 1886, by districts; statistics concerning the use of screens; and a table showing, by districts, the amount of capital invested in coal mines, the output for the year, the number of employes, modes of working, etc.

FIFTH BIENNIAL REPORT, 1887 AND 1888.—[559 PAGES.]

Introduction (4 pages).

Statistics of mortgages (303 pages).—This chapter presents a comprehensive survey of mortgage indebtedness in the state for the three years 1870, 1880, and 1887. Tables covering 205 pages give, for each county separately for each of the three years, the number of mortgages on record, their amounts, whether on farming lands, building lots, or chattels, the causes for the mortgages, the number of acres mortgaged, the average rate of interest, the average term, the total number of acres, the percentage of acres mortgaged, the average incumbrance per acre on lands actually mortgaged, the totals of mortgages to non-residents, etc. Tables covering 58 pages give the same information, in the nature of summaries, for the state. In addition there are given a textual analysis and comments on tables, and a number of short tables giving summaries, recapitulations, and analyses of details contained in the general tables. The number of mortgages, their amounts, and the number of acres and lots held by non-residents are apportioned to the states where held. The three years are contrasted in short tables.

Statistics of strikes and lockouts, 1881-'86 (115 pages).—This division of the report consists of a statistical account of strikes and lockouts in the state during the series of years 1881 to 1886, inclusive, based on material furnished by the United States Department of Labor (see Third Annual Report). Several tables, introduced by appropriate commentary and analyses, give a list of strikes and lockouts in the state, by years and industries, showing for each strike and lockout its location, date, duration, cause, result, whether ordered by a labor organization or by combinations of managers, the number of employes, their wages and hours of labor before and after the strike or lockout, the losses to employers and to employes, etc.; summaries show the same for the state for all strikes and lockouts, by years and by industries. Other tables show the results of strikes, by years, and whether ordered by labor organizations, by years and causes and by industries and causes; a comparison of the number of establishments involved in strikes in the United States and in the five states of New York, Pennsylvania, Massachusetts, Ohio, and Illinois combined, by years; the number of strikes in the United States for the period, by causes, and the number and per cent. for the seventeen leading causes; the number of days required for employes to recover wage losses in each wholly and each partially successful strike for an increase of wages, according to the gain in wages obtained.

Statistics of coal mining (120 pages).—This topic is devoted to the regular annual report of the bureau concerning the production of coal in the state. Reports from the five district inspectors give, by counties and establishments, the number of

miners and their hours of labor; the number of tons of coal mined and its value; the amount of powder used; the methods of development and the mechanical equipments of each mine, etc., and a list of accidents, showing the character of the injury and the cause of the accident. Summaries for the state give the number of mines according to their capacity each year, from 1883 to 1888; the number of mines and the amount of coal produced in 1887 and 1888, by capacity of mines; the names and output of the largest five mines; the total output of coal each year, from 1880 to 1888; the output for 1887 and 1888, by counties; the output, number of employes, and the average number of days worked for twenty-one leading coal companies; the average value of coal per ton at the mines, by districts, each year, from 1882 to 1888; the average prices paid for hand mining, from 1883 to 1888, by districts; the average value of coal and prices paid for mining, from 1883 to 1888, by districts; the wages paid, by occupations, in machine mining, by companies, the number of employes, etc.; the total number of miners and others engaged in coal mining each year, from 1882 to 1888; the average number of working days, by districts, for selected mines, and the per cent. of the number of their employes of the total number of employes; by districts, for 282 mines, which produced 93 per cent. of the total output, the average number of men per mine, the average number of days worked, the average number of tons mined per man per annum and per day per mine; the consumption of powder, by counties; the number of deaths, and the number of persons made widows and fatherless through accidents each year, from 1886 to 1888, the number killed or injured, the total number of employes, the total output of coal, the number of employes, and the number of tons of coal produced to each accident, and the number of injuries, by character and districts and by causes and districts. A general summary gives, by companies, the average daily rate of wages paid; by occupations, the number of accidents, etc.

SIXTH BIENNIAL REPORT, 1889 AND 1890.—[492 PAGES.]

Introduction (2 pages).

Earnings of coal mine employes (257 pages).—This division of the report is devoted to statistics of the earnings and working time of employes in and about the coal mines of Illinois. These statistics were obtained from the books and payrolls of eleven of the principal mines in the state, located in different parts of the coal district, representative of various systems of mining and presenting great diversity of condition and terms of employment. A series of short tables, with an analysis of each, is first presented, giving in condensed form the results of the investigation. The general tables give, in detail, for each mine separately for every person employed in or about the mine during the year, the possible and actual working time, his earnings for the time he appears on the payrolls, his average monthly and daily earnings and percentage of possible time actually at work; summaries present the foregoing facts by months, and recapitulations give the principal facts of the individual tables by occupations.

Foreclosures of mortgages, judgments, and land values (74 pages).—This part of the report is devoted to three groups of statistics. The first, relating to foreclosures of mortgages, consists of a tabular statement for each county in the state and for the state at large, of the number and amount of foreclosures of mortgages during the calendar years 1880 and 1887 and of the number and amount of real estate mortgages executed and recorded during the same years. A distinction is made between mortgages on lands and on lots. The second group, pertaining to judgments, is presented in three separate tables, each arranged by counties and covering the years 1880 and 1887. Table I gives the number and amount of judgments rendered for debt, assumpsit, confession, and attachment, and for the costs pertaining to them. Table II gives a similar presentation of judgments taken by confession on judgment notes. Table III groups the totals of the two preceding tables in comparison with chattel and real estate mortgages. The statistics relating to land values give,

by counties, the selling value of lands in Illinois, as shown by the records of deeds made for acre tracts of land (not including town lots, blocks, or subdivisions) during the calendar year 1887; the highest and lowest prices paid for land in Illinois in 1887, with the number of acres sold at the respective prices; and the value of lands as shown by the records of land sales, compared with the values assessed for purposes of taxation. Two sets of tables for Cook county, with the sales grouped by towns and ranges, afford a comparison of values in that county between the years 1880 and 1887.

Statistics of coal mining (113 pages).—The statistics presented under the above heading are based upon the annual reports of the state inspectors of mines and cover the year ending July 1, 1890. A series of short tables, each accompanied with brief textual comments, and in many cases affording a comparison with former years, gives the number of mines in the state, the output for the year, the number of employes, the average value of coal at the mines, prices paid for mining by hand and by machinery, the amount of powder used, and the number and character of accidents which happened to employes in or about the mines. These tables are followed by full reports of the state inspectors of mines, giving in detail the facts from which the foregoing summaries have been derived.

Appendix (30 pages).—This contains the text of two documents presented to the thirty-seventh general assembly of Illinois,—one on the part of prominent coal operators, protesting against adverse legislation; the other on the part of the miners, in reply to the protest of the coal operators against adverse legislation.

INDIANA.

FIRST ANNUAL REPORT, 1879.—[515 PAGES.]

The state of Indiana (10 pages).—This is a brief sketch of the history, products, and natural and commercial advantages of the state. Statistical tables show the capital, value of material and of the product, and number of employes, with their wages, of six leading manufactories in 1879, and the growth of population by decades from 1820 to 1880.

Value of statistics, and official opinions (14 pages).—Under these heads are presented a general consideration of the value of statistics, opinions of officials relative to the establishing of a bureau of statistics, and the text of the law creating the present bureau.

Work of the bureau, report of expenses, and list of books received (44 pages).—A general explanation of the lines of inquiry pursued, the results accomplished, and the methods of making estimates used by the bureau, the financial report of the bureau, and a list of additions to the library and museum.

Agricultural statistics (75 pages).—This is a tabulated report, mainly an estimate, of the statistics relating to agriculture in Indiana, based on returns made by county auditors. There are four long tables, showing the average yield of wheat, corn, and oats, by counties, for each year, from 1873 to 1879; also, by counties, the number of domestic and farm animals, agricultural products, and manufactured articles in Indiana for the year ending April 1, 1879, and the acreage and agricultural products, by counties and also by townships, for the year 1879.

Statistics of dealers (60 pages).—These general trade statistics are arranged, first, by counties and townships, and, second, by industries. Both tables show the number of establishments, their average expenses and sales, the number of employes and the annual wages paid. Explanatory footnotes follow the table for each industry, and a recapitulation of the statistics shown in the tables and footnotes is given.

Statistics of manufacturers (64 pages).—The statistics received from manufacturers

relative to their condition are presented in tables with copious footnotes, showing for each class of manufacturers, by counties or towns, the number of establishments, the amount of capital invested, the value of raw material used and of the product, the number of employes, and the total amount paid in wages; a recapitulation gives the same information, by industries.

Miscellaneous statistics (128 pages).—Statistics collected from various sources in Indiana which could not be classed under the preceding heads are here presented in tabulated form. Two tables show the liabilities and assets, in detail, of 243 banks, also the salaries paid officers, the amount of taxes paid, and the number of employes. Other tables show the cost and length, receipts, expenditures, etc., of each toll road in the state; the circulation of papers and periodicals published in the state, and the number and average wages of their employes; the number of mortgages, liens, and real estate transfers from 1872-'73 to 1878-'79, by counties and years; the rate of taxation for all purposes, and the number of real estate holders, from 1875 to 1879, by counties and years; the condition and cost of, and general statistics relating to, all roads and bridges in the state; the amount invested in public buildings, etc.; the number of acres of land in the state, its value, the number of acres per capita, the value of personal property, etc., by counties; changes in values for taxation, by counties; county expenditures, by items; the names, dates of organization, etc., of cities and incorporated towns; the values of taxables in cities and towns of the state in 1874 and in 1879; the expenditures of each township, by items; and rates of wages prevailing June 30, 1879, by counties and occupations.

Social statistics (43 pages).—This chapter includes statistics relating to education, marriages, and churches. The tables show for each county, by locations, the names of educational institutions, the number of teachers and their average wages, the value of school buildings and the number of pupils; the number of marriages, by years, from 1870 to 1879, and for each month during the same time; the number of churches, the number of their members, their expenses, etc., by denominations; the number of professional men in the state; and the number of deadbeats, drunkards, and prostitutes, with their proportion to the total population.

Municipal statistics (9 pages).—Statistical tables showing the total municipal indebtedness in the state, with rate of interest paid; and the value of the property of each county.

Vital statistics and sanitary reports (42 pages).—This is a textual and statistical report of the state health commission. It embraces a history of the commission and the following papers: Health in the school room, by L. Moss, D.D.; Topography and climate, by John L. Campbell, LL.D.; Decomposing organic matter, by G. W. Burton, M.D.; Influence of popular customs, habits, and heredity upon public health and morals, by J. W. Hervey, M.D.; and Influence of geology upon local diseases, by Prof. E. T. Cox. Tables show the number of deaths in Indianapolis during 1879, by causes and months; and by causes and years, from 1873 to 1879; the number of deaths in other cities reporting; and the number of letters of administration issued, by counties and years, from 1870 to 1879, inclusive, and by counties and months for the same period.

SECOND ANNUAL REPORT, 1880.—[588 PAGES.]

Indiana (11 pages).—A brief textual description of the resources of the state, with tables showing the increase in its population, by decades, from 1800 to 1880; the amount of certain agricultural products and improvements of the state; and a comparison of school statistics for the years 1879 and 1880.

Importance of statistics and geology (4 pages).—A textual consideration of the subject, with tables showing, by counties, the number of acres in each and their value, for various years, from 1854 to 1880.

Work of the bureau (7 pages).—An explanation of the methods of work of the bureau, with an account of various difficulties encountered and the results.

List of books received and report of expenditures (12 pages).

Agricultural statistics (129 pages).—This consists of statistical tables regarding the agricultural products of the state. Comprehensive statistics are given by counties concerning the grain, hay, and fruit production during the year 1879, based on assessors' returns; and the same for each county, by townships, for the year 1880, partly estimated. Separate tables for each kind of grain, etc., show the acreage and product for the years 1878, 1879, and 1880, by counties. Other tables present statistics concerning the production of milk, honey, wool, etc., and, by counties, the number of fruit trees in the state, the number of agricultural implements, the number of rods of fences, and the number of farm animals.

Miscellaneous statistics (150 pages).—Under this head are presented statistical tables showing the number of real estate owners for each year, from 1875 to 1880, by counties; the value of land and of personal property per capita, and the population in 1880; the taxable valuation of real estate in 1875 and 1880, and of personal property in 1879 and 1880; copious statistics concerning toll roads and mortgages; the population in detail for 1880; classifications of county expenditures; railroad statistics and general road statistics; and a statement of the domestic exports of the United States for each year, from 1861 to 1880; the diseases of domestic animals and the number of deaths resulting therefrom, etc. This is followed by two papers, one on Tile drainage for profit and health; the other on Flax culture in Indiana.

State health commission (50 pages).—This is the second annual report of the Indiana state health commission, and embraces the following papers: Prevention of diseases, by S. C. Weddington, M.D.; Healthful homes, by J. W. Hervey, M.D.; Malaria or miasm, by J. T. Scovell, M.D.; Scarlet fever, by G. W. Burton, M.D.; Diphtheria, by W. S. Haymond, M.D.; and Human longevity, by G. L. Curtiss, M.D., D.D.

Geological report (82 pages).—A textual account of the geological formation of the state; of the remains of the mammoth and mastodon; of archaeological remains; and a detailed account of the geological structure of Putnam and Monroe counties, with two geological maps.

Molluscan fauna of Indiana (17 pages).—A list of molluscan fauna in the state prepared by Frederick Stein, M.D.

Paleontology (52 pages).—A textual account of fossils of Indiana rocks, by C. A. White, M.D., of the Smithsonian Institution, Washington, D. C.

THIRD ANNUAL REPORT, 1881.—[452 PAGES.]

Indiana (2 pages).—A general description of the natural advantages of the state.

Statistics and their importance (8 pages).—A general consideration of the value of statistics is here presented, concluding with replies from physicians relative to the influence of tile drainage on health.

Agricultural statistics (133 pages).—In this chapter are presented, in tabulated form, the statistics relating to agriculture furnished the bureau by county assessors. The tables give statistics concerning the production of grain, fruit, and other farm products, arable land idle or unused, farm animals, etc., for the year 1880 and also for 1881; and they are illustrated by fourteen maps showing the comparative production of the various counties of the state in the branches of husbandry named.

Labor statistics (27 pages).—This is a statistical report based on data furnished by American consuls in Europe and by county superintendents of schools in Indiana. In the brief introduction comparisons are given of the average weekly wages, of the cost of provisions, and of illiteracy in Europe and in the United States. One table, covering 22 pages, shows the average wages and hours of labor per day, for each occupation in Indiana, by counties, in 1881.

Economic statistics (117 pages).—This is a statistical discussion of various economic

questions which bear upon the general management of public affairs. Twenty-five tables are presented showing consecutively, the following: The ratio of the cost of farm machinery to the value of the total production; the number of real estate owners in each county for each year, from 1875 to 1880; the aid granted to railroads by counties or townships; the prices in New York of grains, mess pork, and beef, each year from 1825 to 1880; the general condition and management of the several county asylums; the reported acreage of the state, by counties; the valuation of real estate and personal property and the population of the state; county expenditures; city indebtedness; and taxation and expenditures per capita.

Social statistics (29 pages).—Under this head are given statistics which show, in a limited degree, the social phases of the people of Indiana. The facts shown by the eight tables used are as follows: the number of inmates of the state asylum, so far as reported by county auditors; the number of letters of administration issued, by totals of months in eleven years, and the number of marriages for the same period; the vocations of women and number in each; the acreage of the state and its value, and the estimated population in 1881; the number of volumes in libraries; and a statement of illiteracy in the United States, as shown by the census of 1880.

Educational statistics (18 pages).—This is a textual and statistical discussion concerning the general situation of the educational interests of the state. The tables are furnished by the state superintendent of public instruction and by the national Bureau of Education, and a history of Purdue university is contributed by Prof. Ingersoll.

Mineral statistics (8 pages).—Three tables taken from the census returns present statistics for the United States in 1880, concerning the coal production, blast furnaces and rolling mills, and the production of iron. One table, based on data furnished by county assessors, shows the condition of the mineral resources of Indiana for the year ending April 1, 1881.

Criminal statistics (7 pages).—This is a textual and statistical inquiry concerning the causes of crime, and the expense to the state from crime and pauperism. A table is given showing the number of convictions for crime during the year ending June 30, 1881, and the influence of intoxicating liquors upon crime.

Railroad statistics (44 pages).—The statistical information obtained from the railroads of Indiana is exhibited in tables giving for each road reporting, its length and date of opening; its passenger and freight rates; the number of employes, by occupations, and their wages; the amount of freight moved and the number of passengers carried; the amount of capital stock; receipts, by sources, and gross expenses of each; the number of cars and locomotives owned; and the causes, number, and severity of accidents.

Meteorological statistics (27 pages).—This is a comprehensive report of meteorological observations made in Indiana during the last fifteen years.

FOURTH ANNUAL REPORT, 1882.—[555 PAGES.]

Introduction and financial statement (15 pages).

Agricultural statistics (153 pages).—Seventy-one tables are used to present the statistics relating to agricultural products. In most of the tables comparisons are made between the years 1881 and 1882, and in a few cases 1879 and 1880 are also included. Copious statistics are given regarding the production of grains, fruits and fruit trees, milk and butter, farm animals, poultry, and concerning timbered, arable, and newly cleared lands.

Educational statistics (11 pages).—The statistics relating to education in Indiana in 1882 were furnished by the state superintendent of public instruction. The tables show, by counties, the number of teachers employed and their average wages; the number of schoolhouses and their value; the size of township libraries; and the school funds held by counties. An enumeration of school children, by sex and color, is also given.

Railroad statistics (37 pages).—These statistics for the year were collected by the bureau from the railroad companies. They are arranged in tabulated form, and show for each road reporting the following: the date of opening; passenger and freight rates; the wages paid employes, by occupations; the tons of freight moved; an analysis of expenses; a general financial statement; and a list of accidents. The aid granted new railroads by counties or townships is also shown.

Criminal statistics (11 pages).—Under this head are statistical tables showing, by counties, the number of convictions in the state during 1882 for crimes and misdemeanors, and the number due to the use of intoxicating liquors, and for Marion county alone, the number of convictions for crime, with the offences and costs, the number, by nativity, with comparative conditions, and the number caused by liquor.

Manufacturing statistics (44 pages).—Statistics for Indiana manufactories for the year ending June 30, 1882, so far as the bureau was able to collect them, are here given in tables showing for each industry, by counties, the number of establishments, the amount of capital invested, the value of the raw material used and of the product; the number of employes; and the total amount paid for wages and for all other expenses. A recapitulation for all manufactures completes the chapter.

Vital statistics (52 pages).—From the reports made by county boards of health tables were prepared showing, by counties, the total number of births, marriages, and deaths, and the number of each for each month; the number of deaths, by age periods, by nationality, by season, by diseases, and by occupations.

Economic statistics (70 pages).—These statistics are given in tables showing, by counties, the total expenditures classified and compared with previous years, beginning with 1879; the amount of taxation for all purposes; the mortgage indebtedness and land transfers; the number of real estate owners; the amount of court business by classes of cases; the amount of county auditors' work, and the number of miles of free gravel road built in 1879, 1880, 1881, and 1882.

Mineral statistics (7 pages).—This is a statistical account of the mine and quarry products of Indiana for 1881 and 1882.

Social statistics (80 pages).—A large part of this chapter is devoted to a report on churches and church property. The tables give comprehensive statistics, by counties, and are followed by recapitulations, by counties and by denominations. Other tables give comparative election returns, showing the vote of 1880 and 1882 for state officers, congressmen, and members of assembly; and statistics concerning the size of libraries and the number of pianos and sewing machines owned in the state.

Meteorological statistics (50 pages).—Under this head are given a report of the convention of the Indiana weather observers, with copies of several papers read; and several tables giving meteorological statistics for 1882.

FIFTH ANNUAL REPORT, 1883.—[432 PAGES.]

Commissioner's report and financial statement (5 pages).

Agricultural statistics (70 pages).—Five pages of text give a description of the past agricultural season and a synopsis of the statistical information contained in the twenty-eight tables which follow. These tables show the general condition and the amount of the grain, hay, vegetable and fruit crops, dairy products, and farm animals and poultry, together with statements regarding tile drainage, timber and grazing lands, and death and replant of fruit trees.

Economic statistics (68 pages).—Under this head are given area, population, organization, court business, number of real estate owners, liens, transfers and mortgages, taxable polls, and public expenditures of the several counties and the assessed valuation of property and rate of taxation, to which has been added a history and statement of the public debt of the state, and the total township and city indebtedness in each county.

Manufacturing statistics (51 pages).—This is a comprehensive report concerning the manufacturing industries of Indiana. The tables show for each of the leading in-

dustries, separately, by counties, the number of establishments, the capital invested, the value of raw material used and of product manufactured, and the number of employes and their average wages.

Railroad statistics (28 pages).—This report embraces statistics regarding all railroads entering or passing through the state. The tables show for each road, the counties through which it runs; the number of miles of track in each county; the value of rolling stock; the cost of construction; the equipment; the amount of passenger and freight traffic; the annual earnings and expenses; the number and average wages of employes, by occupations; the number, character, and cause of accidents; and the amount of aid granted by each township to railroads in 1882 and 1883.

Vital statistics (37 pages).—These statistics, for the year ending September 30, 1883, were furnished by the secretary of the state board of health. The tables give the number of births, by counties, months, sex, color, and nativity of parents; the number of marriages in each month, by counties, color, and nativity; the number of deaths in each county, by months and sex and by classes of diseases; also a recapitulation of all the preceding facts.

Social statistics (57 pages).—This report consists of statistical tables, showing, by counties, the number of churches and church members, and the value of church property by denominations, with a recapitulation; the number of volumes in public and in private libraries in 1882 and 1883; the number of pianos, organs, and sewing machines owned in the state in 1882 and 1883; the number of divorces granted in each county, so far as reported, by causes; the number of persons naturalized, by nationalities; the number of inmates of county asylums; an enumeration of the population, by color, for congressional purposes; the number of votes polled for governor and for secretary of state in 1882; and the number of pupils or inmates of the hospitals for the insane and the deaf and dumb and the blind asylums, Indianapolis.

Educational statistics (16 pages).—Very complete information is here given concerning the general condition of public schools in Indiana for the year 1883. The statistics are arranged in tables showing the number of schoolhouses, their character and value; the number of teachers and their average wages; an enumeration of school children, by sex and color, and the number who can not read or write; the number and size of township libraries; the number of private schools in public schoolhouses; the number of teachers and of pupils, and statements of the school funds and the distribution of school revenue.

Criminal statistics (13 pages).—Statistical tables showing, by counties, the number, sex, and nativity of persons confined in jail during the year ending June 30, 1883; also the crimes charged, and general condition of the jails; the number of persons received, the number deceased, discharged, etc., at the Indiana state prison each year, from 1822 to 1883; also, the same for the Indiana state prison north, from 1860 to 1883, and for the house of refuge, from 1868 to 1883.

Mineral statistics (8 pages).—This is a statistical report of the mines and quarries of the state, showing the product for 1882 and 1883, and for coal mines, in addition, the number of employes, the amount of capital invested, and the number of persons killed or injured.

Bank statistics (8 pages).—These statistics show the general condition of the national banks in Indiana, also the number of banks of all kinds in the state, with their average capital and deposits and tax thereon each year from 1876 to 1883.

Internal revenue statistics (9 pages).—Statements are given showing the internal revenue receipts from all sources and consumption of grain by distilleries in each district of Indiana for 1881, 1882, and 1883; the number of cattle and hogs fed in connection with distilleries; and a comparison of the receipts for each year from 1863 to 1883.

Pension statistics (10 pages).—Statistical tables show the number of pensioners of Indiana, by congressional districts and by counties, with the amount of annual pensions. Other tables taken from the report of the Commissioner of Pensions for 1883,

give complete information concerning pensioners and pensions for the whole United States.

Appendix (29 pages).—This is made up of a collection of historical and statistical tables on various subjects relating to the United States. The tables contain lists of the Presidents, Vice-Presidents, members of cabinets, seats of state governments, etc.; and also show the voting population of the states and territories, and the exports, imports, and immigration for 1882 and 1883.

SIXTH ANNUAL REPORT, 1884.—[537 PAGES.]

Agricultural statistics (155 pages).—In the introduction to this chapter are included synopses of all the tables comprising the report and a paper on statistics by J. B. Maynard. The statistical tables relating to agricultural products show first, the production of grain in each county during 1884, and the same for the last six years; also for 1884 and one or two previous years, by way of comparison, the production of hay, vegetables, dairy products, etc., farm animals and poultry, and the condition of fruit trees, vines, drains, and farm lands.

Economic statistics (78 pages).—The tables, giving statistics relating to matters concerning the welfare of the people of the state in general, contain statements of the principal items of public expenditures in the several counties for the last six years; an exhibit of the amounts of all taxes for the last fiscal year; the number and amounts of all mortgages for 1884; the number of real estate owners; the amount of court business; an abstract of taxable property in the state; and a summary of county, city, and township debts on June 30, 1884.

Manufacturing statistics (59 pages).—Eight pages of this chapter are devoted to a textual consideration of pauperism and its principal causes and of labor troubles. The statistical tables which follow relate to the chief manufacturing industries of Indiana, and show, by counties, for each industry, the number of establishments; the capital invested; the value of raw material used and of the product manufactured; the average number of employes and their total wages; a summary of the preceding tables is given, followed by a statement compiled from a Bradstreet report, showing the capital invested in business in the United States in June, 1880.

Railroad statistics (30 pages).—These statistics relate to every railroad entering into or passing through the state. Statements are given, showing, for each road, its length in Indiana, its capital, equipment, earnings and expenses, wages of employes, number and character of accidents, and also the aid granted to new roads by counties or townships during 1883 and 1884.

Social statistics (106 pages).—This is a collection of statistical tables relative to church organizations in Indiana, libraries, divorcees, naturalization, county asylums, and statements showing the votes cast in 1880 and 1884 for governors and members of Congress; and also, by counties, the name, place of publication, character, etc., of each newspaper published in Indiana during 1884.

Educational statistics (25 pages).—These statistics were taken from the reports of school superintendents throughout the state, and are presented in tables showing the number of teachers and their average wages, the number of schoolhouses and their value, an enumeration of children of school age and the number attending school, and the distribution of school revenue for 1884.

Vital and sanitary statistics (23 pages).—The tables here presented were compiled from the report of the state board of health. They give complete statistics regarding the births and marriages in Indiana during the year ending September 30, 1884, and a summary, by counties, of the marriages, births, and deaths for the same period.

Criminal statistics (11 pages).—This is a report showing the number, sex, and nativity of persons confined in jail in Indiana during 1884; the number of convictions and indictments in criminal cases, and a classified statement of the prisoners in the penal and reformatory institutions of the state.

Mineral statistics (8 pages).—This is a statement of the mine and quarry products

reported for the seasons 1882-'83 and 1883-'84, and of the general condition of coal mines for the years 1882, 1883, and 1884.

Miscellaneous statistics (24 pages).—Under this head are presented statistics relative to a variety of subjects. The principal tables relate, respectively, to the freight rates charged by leading railroads to seaboard cities; to internal revenue receipts; to distilleries; to benevolent institutions; and to pensions. An estimate of the apple and small-fruit crop for 1884 is also given.

FIRST BIENNIAL REPORT (7TH VOL.), 1885 AND 1886.—[502 PAGES.]

Commissioner's report (50 pages).—This contains, in addition to a general report and financial statement of the bureau, a textual history of the discovery and use of natural gas in Indiana, with numerous statistical statements, a consideration of the value of labor statistics, advocating increased facilities for their collection in the state; a reference to the state debt, domestic and foreign; a textual and statistical account of all kinds of agricultural products during the year; a consideration of the prevalence of disease among domestic animals; a summary of school statistics, and synopses of all the information contained in the report.

General statistics (268 pages).—In this chapter are presented textual and statistical descriptions of each county in the state, including information respecting the area, soil, population, schools, yield and value of agricultural products, live stock, township indebtedness, assessed valuation of property, rate of taxation, and churches; also of the churches, by denominations; and comparative statements of the average yield of corn, wheat, and oats for the five years from 1880 to 1884, and for the years 1885 and 1886.

Manufacturing statistics (44 pages).—The statistical tables given here relate to the principal manufacturing industries of Indiana and show for each, separately, by counties, the number of establishments; the value of the raw material used and of the product; the number of employes; and the total amount paid in wages; with a summary, by industries. A statement is also given showing the number of coal mines in operation in 1885 and in 1886, the average number of employes, the amount of product, and of capital invested.

Social statistics (16 pages).—This consists of tables giving for the years 1885 and 1886 complete statistics concerning the inmates of county asylums; the number and causes of divorces; the number and nationality of persons naturalized in the state; and the official vote for Representatives, by congressional districts.

Economic statistics (39 pages).—Here tables are given containing statistics on subjects pertaining to the management of public affairs in each county, including county indebtedness and expenditures of all kinds, the business of the courts, mortgages, and real estate transfers; and the number of owners of land.

Criminal statistics (11 pages).—This is a tabulated statement of the number, sex, color, and nativity of persons confined in jail during 1885 and 1886, and a classification of the crimes charged, by counties.

Railroad statistics (29 pages).—This is a report of all railroads entering into or passing through Indiana, and consists of tables giving for each road, for the years 1885 and 1886, its earnings, expenses, passenger and freight traffic; the number and average wages of employes, by occupations; and the number of accidents and their causes. Other tables show the aid granted to railroads by townships, and the name, length, assessed value, etc., of each road in the state, by counties.

Vital statistics (5 pages).—A statistical table showing, by counties, the number of marriages, births, and deaths during the year ending September 30, 1886.

Miscellaneous statistics (18 pages).—Under this head are presented tables relating to the United States. They show consecutively the assets and liabilities of the United States Treasury; the receipts and expenditures of the United States for 1885 and 1886; the receipts from internal revenue in 1886, by states; the public debt of the United States in 1885 and in 1886; the value of imports and exports of gold, silver, and

merchandise each year, from 1881 to 1886; the value of imports and exports carried in American and foreign vessels, each year, from 1856 to 1885; the annual consumption of malt liquors and wines in the United States, for the years 1810, 1850, 1860, and each year from 1870 to 1886, inclusive; and the transportation rates on various railroads.

SECOND BIENNIAL REPORT (8TH VOL.), 1887 AND 1888.—[554 PAGES.]

Introductory references, articles, etc. (109 pages).—This chapter is, in effect, a brief history of Indiana for the years 1887 and 1888. It contains the following: An account of the development of the natural gas resources of the state; a statement of the result of an investigation concerning marriage and divorce, with statistical tables; a discussion regarding paupers and criminals; a report of the national convention of chiefs of labor bureaus at Indianapolis, in 1888; an account of the drought of 1887, with statements of its effects in various counties; textual explanations and synopses of the statistical tables appearing in the report itself; and finally, a consideration of building and loan associations, with five statistical tables covering twenty-two pages, and embracing a history of those associations, and a complete description of the manner in which they are conducted.

Indiana cities and towns (148 pages).—This is a textual description of each city and important town, arranged by counties, in Indiana, and concludes with a statement showing the population, value of real estate and personal property, and the indebtedness and rate of taxation in the several cities and towns mentioned. The statistics for each of the years 1886 and 1887 are given separately, the form of the tables being the same in both cases, and they are presented in the following order:

General statistics (33 pages for 1887, and 31 pages for 1888).—These tables show the amount and value of grain, seeds, hay, potatoes, sugar, dairy products, and domestic fowls for each year; also the amount of stone, lime, cement, and coal.

Live stock (15 pages for each year).—These tables show the number of horses, mules, cattle, sheep, and hogs in Indiana in 1887 and 1888, and the number dying of diseases in each year.

Social statistics (7 pages for 1887 and 9 pages for 1888).—These statistics show the number of inmates of poor asylums, the number and causes of divorces granted; the number and nationality of persons naturalized, and for 1888 the number of votes cast at the November election in Indiana for President and for governor.

Economic statistics (22 pages for each year).—Under this head are given statements of county expenditures, in detail; of town and county indebtedness; statistics of liens, mortgages, and transfers, and of the business transacted in the several judicial circuits of the state; and of the assessed valuation of property.

Criminal statistics (7 pages for each year).—Tables are given showing the number of persons confined in jails and the crimes charged against them.

Fruits and fruit trees (11 pages for 1887 and 9 pages for 1888).—Statements are given of the number and variety of fruit trees in the state, with the number dying and replanted each year, and of the amount of fruit canned, dried, or preserved.

Railroad statistics (16 pages for 1887 and 35 pages for 1888).—These statistics show the annual earnings and expenses and passenger and freight traffic of each road entering into or passing through the state, and the number of employes and their wages and hours of labor; also the number and character of accidents and the aid granted to railroads by counties or townships.

Strikes and lockouts (31 pages).—Tables taken from the Third Annual Report of the United States Department of Labor show, by years and industries, for each strike occurring in Indiana from 1881 to 1886, the following: the locality, cause, duration, result, the loss to employes and to employers, and the number of employes, with their average wages before and after the strike. Recapitulations give the same information for all years by industries, and for lockouts, by years and industries.

THIRD BIENNIAL REPORT (9TH VOL.), 1889 AND 1890.—[505 PAGES.]

Introductory articles (20 pages).—Under this heading are given a brief account of the results of the discovery and application of natural gas in Indiana; statistics of farm products of the state for the twelve years, from 1879 to 1890; a copy of the law enlarging and defining the duties of the bureau; and an article drawing a comparison between Massachusetts and Indiana as regards area and population, with two short tables giving the population of these states for each decade, from 1820 to 1890, and the popular vote for President from 1824 to 1888, inclusive.

Building and loan associations (49 pages). This is a textual and statistical consideration of the operations of the building and loan associations of the state for the years 1889 and 1890, based upon data furnished by the secretaries of these associations. The tables give the name of each association reporting, its location, capital stock, the number of shares, the name of the secretary, the number of series issued, the number of shares taken, the number of shareholders, the profits per share on matured series, the length of time each series was maturing, the amount of security forfeited, the rate per cent. charged on loans, the average amount of weekly premiums paid on each share borrowed on, the number of shares and the amount borrowed by wageworkers, the amount of dues, fines, and interest paid, the cash on hand, the amount of profits received, the amount paid for redemption of shares, and the amount of office expenses, including salaries, printing, etc.

Agricultural statistics (108 pages). This part of the report is devoted to the agricultural interests of the state and consists of a number of tables showing, by counties, the acreage and production of the principal farm products for the years 1888, 1889, and 1890; the number of rods of fencing erected and of drain tile laid in 1889 and 1890; the number of horses, mules, cattle, and sheep, and the amount of wool clipped in 1888 and 1889, with the estimated product for 1890; the number of sheep killed by dogs in 1889 and 1890, and the number of cattle, hogs, and sheep slaughtered for food in Indiana in 1888, 1889, and 1890.

Economic statistics (73 pages).—This consists almost entirely of statistical tables compiled from data furnished by county, township, and court officials. The first four tables relate to county expenses and show the amounts paid out by each county for various purposes; the remaining tables show the indebtedness of the several counties and townships; the bonded and floating debt and sinking funds of the several cities and towns; the several judicial circuits in the state and the business transacted in each; the number of transfers by guardians, sheriffs, auditors, and others; the number of mortgages, liens, and satisfactions; and the number of land and lot owners in each county, for 1889 and 1890. An additional table shows the assessed valuation of property for 1890, the taxes levied for 1889, and the rate of taxation and number of polls in 1890.

Criminal statistics (15 pages).—These tables give the number of prisoners in the jails of Indiana in 1889 and 1890, and show their sex, nativity, and color, and the crimes charged against them and on account of which they were incarcerated.

Social statistics (99 pages).—The statistics presented under the above title relate to various subjects. They show, by counties, the age, sex, and nature of disability of inmates of county asylums; the number of divorcees granted and the causes alleged in the complaints; the number and nationality of persons naturalized in Indiana in 1889 and 1890; the enumeration, enrollment, and average attendance of school children, the number of teachers employed, the number and value of schoolhouses, the amount paid to teachers, and the number of volumes in township libraries in 1890; the votes cast for governor in 1888, and for secretary of state and for the several congressional candidates at the election of 1890.

Railroad statistics (77 pages).—This is a textual and statistical consideration of the railroad affairs of the state for the years 1889 and 1890. The tables, based upon returns received from railroad officials, give for each road in detail the earnings and

expenses, the amount of passenger and freight traffic, the wages of employes and their daily hours of labor, the number of persons killed or injured by accidents, and the amount of aid voted by each county. An additional table shows the value of the main track, side track, rolling stock, and improvements on right of way of the several railroads in the state in 1890, as equalized by the state board of equalization.

Coal mines (10 pages).—This topic consists of several statistical tables showing, by counties, the number of mines in the state, the total product and the disposition of the same, the average price per ton at the mines, the average wages paid per day to employes in coal mines, the value of mines and improvements, and the power used in mining.

Miscellaneous statistics (38 pages).—This consists of a number of tables on various subjects, taken mostly from United States treasury and census reports. The tables show the population of one hundred of the principal cities in the United States and their expenditures in detail; the number of alien passengers landed in the United States each year from 1820 to 1890; the number and sex of immigrants, by nationality, landed during the year ending June 30, 1890; the gold and silver imports and exports, for 1889 and 1890; the imports of merchandise during the year ending June 30, 1890; the values of the imports and exports of the United States carried in American and in foreign vessels, respectively, each fiscal year, from 1857 to 1890; the public debt of the United States, each year, from 1791 to 1890; the rate of taxation, receipts and expenditures and public debt of each of the states and territories for 1888; the receipts and expenditures of the United States for the year ending June 30, 1890; the population of Indiana, by counties, each decade, from 1800 to 1890; the population of the United States, by states and territories, for the years 1870, 1880, and 1890; the number of Indians living on and off reservations in the several states and territories; the amount of coinage executed at the mints during the fiscal year 1890; the coining value of the gold and silver produced from the mines of the United States since 1792; the production of spirits for the last ten years; and the number of convicts in the penitentiaries of the several states and territories in 1890.

IOWA.

FIRST BIENNIAL REPORT, 1884 AND 1885.—[398 PAGES.]

Origin of the bureau (2 pages).—A copy of the act creating the bureau.

Introductory (5 pages).

National convention—Blanks of Iowa bureau (31 pages).—This consists of abstracts from the minutes of the first and second national conventions of chiefs and commissioners of labor bureaus, including a paper by Prof. Sanborn on Labor and statistical problems of the farm, and copies of blanks sent out by the Iowa bureau to township assessors, employers, and employes.

Labor organizations (11 pages).—A textual and statistical consideration of labor organizations in the state, giving the location and number of members in 1884, of the Knights of Labor assemblies, of typographical unions, cigar makers' unions, and organizations of the Brotherhood of Locomotive Engineers, the Brotherhood of Locomotive Firemen, the Order of Railway Conductors, and the Bricklayers' and Masons' International Union.

Cooperative societies (9 pages).—A brief textual consideration of cooperation, with accounts of various cooperative associations in Europe and America, including extracts from a recent report of the New Brunswick (N. J.) Cooperative Association.

Technical education; manual training schools (38 pages).—A textual consideration of technical education, containing the quoted opinions of a large number of prominent educators, and statements of the courses of study and accounts of the results of different manual training schools.

The city of Pullman, Illinois (18 pages).—A joint report by the chiefs and commissioners of the various state bureaus of labor of an investigation of the economic experiment conducted by the Pullman Palace Car Company. The sketch includes the history of Pullman and its method of construction, tables showing its growth in population and the religious belief of its inhabitants, and a brief discussion of their wages, rents, living expenses, amusements, and health.

Convict labor (22 pages).—This chapter relates mainly to the employment of criminals in the penitentiary at Fort Madison, Iowa. Copies are given of the three contracts for convict labor to which the state is a party. Tables, taken from a New York report for 1885, show the number of convict laborers in the United States in each class of penal institutions; and the chapter concludes with a table giving, by states, the total number of convicts employed in the United States, with the systems of labor used.

Strikes and arbitration (37 pages).—This consists of textual considerations, first, of strikes in general, with brief accounts of the most important strikes in Iowa; second, of arbitration, with extracts from Henry Compton's Conciliation and arbitration; third, of the truck system or company stores; and fourth, of coal screening. Under the last head the reports of a commission appointed by the governor to investigate the subject are given.

Immigration (5 pages).—This is a discussion of the subject relative to the increase of the defective and dependent classes in the United States, together with statistical tables showing the number of cabin and steerage passengers landed in New York during 1884 by all the steamship lines, and also the number of patients in the Iowa hospitals for the insane in 1885, with the number of foreign and of native born.

Farm labor, value, acreage, and rentals (7 pages).—Reports made by 491 prominent farmers in the state relative to wages paid to farm laborers are here presented in tabulated form. Tables show, by counties, the average wages of farm hands by seasons. Other tables taken from United States consular reports give the agricultural wages in England and in various places in Germany; and the chapter concludes with a table showing the value, rentals, and acreage of farms in Iowa, by counties.

Sites (10 pages).—Under this head are presented farmers' and county auditors' suggestions regarding sites offering advantages for the profitable location of various branches of industry.

Views of workmen (25 pages).—This chapter contains remarks and suggestions by individual workmen relating to the general condition of employes in various industrial callings.

Views of operators regarding coal screens (7 pages).—Copies are here given of four letters to the commissioner of labor from four prominent mine operators, containing their views regarding the coal screen question.

Suggestions of manufacturers, storekeepers, etc. (9 pages).—This is a compilation of the suggestions made by individual employers regarding their various occupations.

Schoolteachers, wages, cost of living, opinions regarding uniform textbooks, etc. (21 pages).—This chapter is composed of statistical tables based on information furnished by teachers in the state, and of textual extracts from teachers' letters concerning obstacles to their work, and relating to state uniformity of textbooks. The tables give the age, nativity, hours of work, earnings, cost of living, etc., of each teacher reporting, and are followed by a recapitulation.

Street railways (6 pages).—This is a statistical report showing for the principal towns and cities in Iowa the average wages and hours of employment of street railroad employes, by occupations; also the amount of capital invested in the railways, the number of miles of road owned, and the number of stockholders.

Railroads (9 pages).—Statistics for the two years covered by this report, relating to all railroads entering into or passing through Iowa, are presented in tables, showing for each road the number of miles of track in Iowa, the total number of employes, and their wages and hours of labor, by occupations, and a statement of the number of persons killed or injured.

The mining industry (6 pages).—Under this head are given tables showing for the principal coal mines of the state, their location, the number of employes, the rate of wages paid, by occupations, the hours of labor, the duration of strikes which occurred, and the fluctuation of wages. A table also gives, by counties, the approximate estimate of the output of mines for each year, from 1881 to 1884.

Cost of living (9 pages).—Statistical tables are here given showing the average prices of groceries, meats, clothing, rents, and fuel in Iowa; also a comparison of the prices for meats and groceries in various places in Europe and America.

Tables of wages, cost of living, etc. (53 pages).—The returns made to the bureau by employes throughout the state are here presented in tables, showing, by occupations, the average wages, time lost, earnings, cost of living, etc. These tables are followed by recapitulations for the counties of the state, and a comparative statement of wages in Europe and in the United States.

Manufactures (7 pages).—This chapter consists of statistical tables based on returns received from manufacturers, showing the number of employes in the leading manufacturing industries of the state, and their wages and hours of labor.

Miscellaneous (9 pages).—This chapter consists of textual and statistical matter relating to the number of wageworkers among the criminal classes of the state; to the improvement made in various parts of the state; to Iowa regiments during the war of the rebellion; to agriculture; and offers some suggestions by the commissioner.

Addenda (28 pages).—A synoptical report of the convention of the chiefs of labor bureaus, held in Boston in June, 1885, and a table showing the capital invested in the manufacturing industries of the state and the value of goods made in 1884.

SECOND BIENNIAL REPORT, 1886 AND 1887.—[120 PAGES.]

Introductory (4 pages).

Wages, cost of living, homes, etc., of wageworkers (191 pages).—The returns made by employes in Iowa are here presented in tabulated form. The first tables given cover 130 pages, and show, for each county, by occupations, the number of returns, the average wages, time lost, total earnings, average cost of living, the number of workingmen owning homes, the number assisted by wife or children, etc., and the average prices paid for staple commodities. A table shows comparative wages in Iowa and foreign countries. These are followed by 19 pages of text containing the remarks and suggestions of individual employes relative to their conditions and needs. Short tables show the average wages of farm laborers in each county, by seasons, and in Europe. The general condition of coal miners in the state is shown by a statement of the statistics received from various counties and by textual extracts from personal letters; and under the head of women wage-earners are given 4 pages of text and a short table showing the wages, hours of labor, expenses of living, etc., of 50 workingwomen in the state, by occupations.

Manufactures, etc. (35 pages).—This chapter embraces textual and statistical considerations of various industries of the state. Manufactures are first treated of; a short table giving, by industries, the number of establishments, the value of the raw material used, the average time in operation, the average weekly wages paid, and the proportion of the employes owning homes. Then follow several pages of text containing the views of manufacturers. Two tables show for the coal mines of Iowa their location and names, the capital invested in each, their capacity, number of days in operation, the number of employes and their wages, by occupations, etc. Other tables give the names of railroads entering into or passing through Iowa, with the number of miles of track in the state, the number of employes, and their wages and hours of labor, by occupations; and the average wages and hours of labor of employes of street railways, by occupations, for each of the principal cities of the state.

Convict labor (62 pages).—This is a textual and statistical consideration of convict labor in the United States. Statistical tables, with recapitulations, give, by states, institutions, and occupations, the number of convicts in the United States, showing

sex, whether idle or at work, and the method of employment in use (by lease, contract, piece price, or on public account); the prices paid for convicts under the contract system in the different states, and the number of convicts at work in the two penitentiaries of Iowa. The text contains the views of wardens and superintendents of various penal institutions throughout the country; abstracts of recent legislation by different states on the subject, and the testimony of manufacturers collected by the Illinois labor bureau. Then follow extracts from the report of the United States Department of Labor on convict labor, showing the number of convicts in the United States, by states and by institutions, classified according to the severity of the penalties inflicted in each, and the average ages of convicts by the same classes of institutions.

Taxation and assessments, city, town, and county finances (90 pages).—This chapter consists of, first, statements showing for all the counties in the state, the aggregate value of taxable property in each and the details of their methods of assessment and taxation; second, statistical tables giving for each city and town reported, its indebtedness, its total receipts and expenditures, and its rate of taxation for the last fiscal year, and the same for each county for the year 1886; also the revenue to each of a number of large cities in the United States from each kind of license granted by it.

National conventions of chiefs and commissioners of bureaus of labor statistics, in 1886 and 1887 (13 pages).—Abstracts of the minutes of the fourth and fifth annual conventions of the chiefs of bureaus of labor.

Conclusion (15 pages).—Under this head is given a general textual consideration of temperance; strikes, with tables from a Bradstreet report giving the number of strikes, by causes, for the first six months of 1887, and the number of lockouts, by industries, for the same period, showing the number of employes idle, their loss of wages, etc.; cooperation, with a list of cooperative societies in the United States which are in a flourishing condition; and of various other subjects of interest to laborers, together with a copy of the acts of Massachusetts and New Hampshire providing for the weekly payment of wages by corporations.

THIRD BIENNIAL REPORT, 1888 AND 1889.—[413 PAGES.]

Introductory (3 pages).

Individual statistics (97 pages).—Statistical tables based on returns made to the bureau by individual workmen show, for each county separately, by occupations, the number reporting, their nativity, the average hours of labor, wages and annual earnings, cost of living, the number assisted by their families, the number owning homes, the number saving money, etc., with recapitulation by occupations. A short table shows the comparative wages of building and other trades in the state and Europe. Additional returns furnished by postmasters, assessors, and statisticians of Knights of Labor assemblies are presented in tables showing, for each prominent city of the state, by occupations, the number of workmen, their general condition and their average wages. Fourteen pages of textual extracts from the communications received from workmen follow, showing the writers' views on various matters relative to the general condition and happiness of wage-earners.

Farms and farm labor (21 pages).—The information given here was furnished by reliable farmers in each county. It is presented in tables, showing for each county the number of farms reported, with the total number of acres and their value, the average size of farmers' families, the number of employes and their average wages. Several tables showing the agricultural wages in different European countries are given for the sake of comparison, and the remainder of the chapter is made up of extracts from the expressions of farmers relative to measures that would ameliorate the condition of the farmer and workingman and to the chief causes that lead to a farmer's failure.

Coal miners (49 pages).—The reports made to the bureau by coal miners are here

presented in a table showing, by counties, the wages, average earnings, cost of living, and general financial condition of those reporting. Additional statistics give for individual miners an itemized statement of the actual income and outlay of each. Views of employes are also given, together with copies of contracts which they are, in some instances, required to sign.

Women wage-earners (11 pages).—This is a textual and statistical account of the condition of women employed in the state. A single table shows, by occupations, so far as reported, the number in each, their hours of labor, earnings, time lost, etc., and the remainder of the chapter is made up of extracts from the reports received from working women.

Manufactures, stores, etc. (4 pages).—This is a statement of the information received from manufacturers, storekeepers, etc., regarding their establishments and employes.

The mining industry (10 pages).—The returns from the operators of coal mines are presented in tabulated form, and show the name and location of each mine, the average number of employes, the average weekly wages, by occupations, and the weekly hours of labor. Textual extracts from the returns follow, consisting for the most part of accounts of strikes which occurred during the last five years.

Strikes and lockouts (4 pages).—This consists of two statistical tables taken from the Third Annual Report of the United States Department of Labor, giving the number of strikes and lockouts in Iowa, by industries, for the period 1881 to 1886, showing their aggregate and average duration, their results, the losses to employes and to employers, and the number of employes and their wages before and after the strike or lockout.

Railroads (27 pages).—Under this head are given statistical tables, based on returns from railroad companies, giving, for the years ending June 30, 1888, and June 30, 1889, for each road, the number of miles of track in Iowa, the number of employes and their average wages and hours of labor, by occupations; and the number of persons killed or injured on each road. The tables are followed by extracts from the answers of the principal companies to various questions concerning their treatment of employes.

Taxation and assessments (69 pages).—This is a very complete report, showing for each county in Iowa, as far as possible, the aggregate assessed value of real estate and personal property, the manner of assessing banks, building and loan associations, and merchandise, the percentage of unassessed property, and the inequality of assessments.

Cities and towns (51 pages).—This chapter consists of statistical tables, showing for each of the principal cities and towns of the state its total receipts and expenditures, present indebtedness, and rate of taxation; also the property, personal, and license taxes, by items.

Savings banks (4 pages).—Returns from thirty-seven of the fifty savings banks in the state are presented, showing for each institution the date of its organization, the number of its depositors, the total amount of deposits, the interest paid, the increase of deposits over 1886, etc.

Seventh annual convention of commissioners (45 pages).—This is a copy of the minutes of the convention of chiefs of labor bureaus held at Hartford, Connecticut, in June, 1889, containing the address of the president, Carroll D. Wright, a list of labor bureaus, with dates of their establishment and names of present commissioners, reports of the different bureaus regarding the work being done by each, and a table specially prepared for the convention giving for the United States and for various foreign countries the average earnings of a skilled blacksmith, his hours of labor, earnings for ten hours' work, and the purchasing power of his wages in four staple commodities.

Conclusion (5 pages).—This is a textual résumé of the condition of labor in the state, and particularly of child labor, with some suggestions offered by the commissioner, based on the results of his investigations.

FOURTH BIENNIAL REPORT, 1890 AND 1891.—[279 PAGES.]

Introductory (4 pages).—This is in the nature of a letter of transmittal, and offers the suggestion that the bureau should be authorized to maintain a free employment agency in connection with its statistical work.

Statistics (2 pages).—This comprises comments on statistics and the methods pursued in their collection.

Agricultural depression (13 pages).—This treats of the condition of agriculture in the state. It includes articles on the subject from various newspapers, and two statistical tables, one showing the profit and loss to Iowa corn growers from 1880 to 1889 inclusive; the other, compiled from the Album of agricultural graphics, the average yield per acre and average local market value per acre, by states, of wheat, oats, corn, rye, barley, potatoes, and hay, from 1880 to 1890.

General farm statistics (39 pages).—This topic presents a series of statistical tables based upon the individual reports, arranged by counties, of 1,015 farmers, showing the local market price of shelled corn per bushel to net eight per cent. profit on investment, the per cent. of farmers prevented by their debts from holding their products for the best market prices, the per cent. of farmers losing farms by mortgage foreclosure since 1880, the per cent. of farm labor displaced by labor-saving machinery since 1870, the average wages paid farm labor and the average number of hours of labor per day during the busy season, the per cent. of farmers' children between the ages of 8 and 16 years kept from school to do farm labor, the average number of days lost by them in consequence, and the number of farmers reporting either a profit or a loss on the principal farm products.

Voice of the farmers (39 pages).—Under this heading are given the opinions of farmers from all parts of the state on various subjects pertaining to the condition of agriculture.

Cost of producing corn (75 pages).—The information in this part of the report, based on the individual reports of 1,179 farmers, is given chiefly in statistical tables computed on a basis of 40 acres and a yield of 34 bushels per acre. The cost of production for each individual is shown in detail, by counties, including the value of fertilizers and the interest of the investment in the land.

Classified wages (31 pages).—Under this head are first given a few short tables, compiled from advance bulletins of the eleventh census, containing statistics of coal mining in the United States, by states, for the year 1889. The general tables give separately for a number of different occupations, the number and per cent. of the total number of employes, classified according to groups of daily earnings, and showing their hours of labor, time lost during the year, frequency of payment of wages, and average yearly earnings, with a recapitulation.

Statistics of railroad employes (5 pages).—Statistical tables, taken from the report of railroad commissioners, show the number of passengers, employes, and other persons killed or injured in railroad accidents during the year ending June 30, 1890; and the average daily rates of pay and average annual earnings of employes, by occupations, of each one of thirty-two roads in the state.

Immigration (3 pages).—Tables, compiled from government reports, give the number, nationality, and occupations of immigrants landed in the United States each year from the fiscal year ending June 30, 1881, to June 30, 1890.

Contract convict labor (2 pages).—This gives a brief account of the system as practiced in the state, including a copy of the laws relating to the leasing of convicts confined in the Fort Madison penitentiary.

Manual training (4 pages).—This is a brief textual consideration of the subject, and includes a complete and comprehensive description of the system used and results attained in the West Side Des Moines high school, contributed by Prof. Miller.

Private employment offices (24 pages).—A textual consideration of the abuses of private employment offices, and a copy of the law relating to free public employment

offices now in force in Ohio, with comments on its results, by John McBride, commissioner of labor statistics of that state, are here presented.

Labor laws of Iowa (28 pages).—This is a compilation of the laws of the state relating to apprentices; providing for arbitration of labor disputes; creating the bureau of labor statistics; providing for the safety of employes in mines; limiting the age of children employed in mines; providing for weighing of coal at mines; prohibiting blacklisting and screening coal at mines before weighing; providing for payment of wages in legal tender; protecting laborers and miners for labor performed in opening and developing mines; providing for exemption from execution and attachment; exempting pension money from execution and attachment; providing for legal holidays; making labor day a legal holiday; relating to mechanics' liens, and to contractors' liens; prohibiting the formation of trusts and combinations; and providing for the suppression of tramps.

Conclusion (8 pages).—This gives the number of miles of electric street railways in the principal cities of the state; the condition of the corn crop of 1890; the cost of living of laboring men with families to support; national, state and county indebtedness; and a list of bureaus of labor statistics in the United States.

KANSAS.

FIRST ANNUAL REPORT, 1885.—[276 PAGES.]

Introductory (11 pages).—A sketch of the organization of the bureau of labor and the methods employed in conducting its investigation, with copies of circulars and blanks used in collecting data. The law creating the bureau precedes this.

History of labor bureaus (59 pages).—This subject embraces a textual history of the establishment of labor bureaus in the different states; abstracts of the proceedings of the first, second, and third conventions of chiefs of bureaus of labor, including the history of the organization of each bureau as reported by its chief, a report of the visit of the chiefs to Pullman, Illinois, the address of Carroll D. Wright on the work of the national Bureau of Labor at Washington, and a paper by Prof. Atwater on Chemistry and economy of foods. This last paper contains tables giving the weight of compounds in the human body, the percentage of indigestible matter in different foods, and thirty-two tables of daily rations, at a fixed cost, suitable for a laboring man at moderate work.

Statistics, industrial conciliation and arbitration (17 pages).—A textual account of the character of industrial statistics, the advantages of conciliation and arbitration, and a brief historical sketch of arbitration in France and England.

Labor organizations (13 pages).—This consists of a textual sketch of the principal labor organizations in the United States, viz: the Knights of Labor, Amalgamated Association of Iron and Steel Workers, Brotherhood of Locomotive Engineers, Brotherhood of Locomotive Firemen, Order of Railway Conductors, International Typographical Union, Patrons of Husbandry, Cigarmakers' International Union of America, and International Workmen's Association. The platform of the Knights of Labor, adopted September 10, 1884, and extracts from the constitutions of other organizations are given.

Views of workingmen (23 pages).—Remarks of individual workingmen regarding the general condition of employes, and suggestions looking to its improvement.

Convict labor (8 pages).—A textual consideration of convict labor, including a copy of the agreement under which the contract portion of the prisoners of the state is employed, with textual comments upon the subject and a table giving the number of convicts in the state prison, how employed, the cost per convict, etc.

The mining industry (11 pages).—Statistical tables are here presented, based on returns from operators and miners, with numerous extracts from these reports and a brief

sketch of the lead and zinc mining industry in the state. The first table, compiled from thirty-three miners' returns, shows, for each individual, the average daily output of coal and the price received per bushel, the number of days the mine was in operation, the dimensions of screens, the miners' gross earnings, and family and other expenses for the year, etc. The second table, compiled from twenty operators' returns, shows the number of days the mine was in operation, the number of employes and their weekly wages, by occupations, and their hours of labor per week based on full time.

Wage tables, and a review of the growth of manufacturing industries in the state (52 pages).—This topic embraces a series of statistical tables compiled from the reports of the state board of agriculture, giving the number of the principal manufacturing establishments in the state for 1874 and 1875, with the amount of capital invested; the average retail prices of groceries and provisions for the years 1875, 1880, 1882, and 1884; wages in 1875, 1880, 1882, and 1884, by counties and occupations; wages for 1875, by counties; the number of manufactories, their capital and power used, for 1878 and 1881, arranged by counties in alphabetical order, and for 1878 and 1882 according to the relative standing of the counties in amount of capital invested, with summaries for the state, by industries; average wages in 1875, 1880, 1882, and 1884 for all trades reported, and a table comparing the average wages for the state in nine of the leading trades for 1875, 1880, and 1884, with the average wages paid the same trades in Massachusetts in 1883.

Flouring mills (9 pages).—Statistical tables, based on returns from a number of millers in the state, giving the locality of each mill, the amount of capital invested, the motive power, daily capacity, the number of bushels of grain ground during the year and the value of the product, the number of days in operation during the year, and the number of employes and their wages, by occupations.

Wage tables, days lost, cost of living, etc. (29 pages).—Statistical tables, compiled from returns by wageworkers, give, by individuals, their occupations, their nativity, hours of labor, wages, number of days lost, earnings of members of the family, the amount paid for rent, the number in family, their financial condition, whether insured or not, diseases peculiar to different occupations, etc., with a recapitulation, by occupations. The relative character and earnings of trades unionists are given. Tables also give the average daily wages, annual earnings, hours of labor, etc., in eight trades in Iowa and Kansas, and a list of retail prices of groceries and provisions in Topeka.

Growth of manufacturing industries in Kansas (15 pages).—This is a textual and statistical account of the growth of manufactures in the state. Tables give, by counties, a list of manufactories in the state, as far as reported, for the year ending June 30, 1885, the amount of capital invested, the value of the product, cost of material, amount paid for labor, the number of employes (men, women, and children), and their average wages, hours of labor, etc; recapitulations are given, by counties and by industries.

"Exodusters" (10 pages).—This heading embraces a textual account of the condition of the negroes who immigrated into Kansas in 1879. An accompanying table gives the occupations, earnings, cost of living, etc., of seventeen families of "exodusters" in 1885.

Employed and idle labor in Topeka, December 12, 1885 (3 pages).—A textual account of the unemployed in Topeka, December 12, 1885; and a table showing, by occupations, the number of wageworkers who are idle, partly employed, and fully employed, and their nativities.

Railroads (6 pages).—Returns from nine out of the twenty-eight railroads operating in the state, give, by roads and occupations, the average wages paid employes, and their hours of labor, the number of miles of each road in the state, and a list of accidents, etc.

Conclusion (2 pages).—A textual consideration of the proper field of activity for a labor bureau.

SECOND ANNUAL REPORT, 1886.—[497 PAGES].

Introductory (6 pages).—A letter of transmittal and a discussion of the policy pursued by this and other labor bureaus.

Review of the first annual report of the national Commissioner of Labor (11 pages).—A textual review of the report on industrial depressions.

Strikes, boycotts, and blacklists (81 pages).—A short textual account is here given of the strike of the employés of the Kansas City Smelting and Refining Company located at Argentine, Wyandotte county, in 1886; and also a detailed account, 51 pages in length, of the southwestern strikes in 1885 and 1886, extending over the entire Gould southwestern system, including copies of the correspondence between the parties concerned, and a comparative statement of daily wages paid by the different railroad companies operating in the same territory in 1885. Under Boycott, is given a general textual consideration of the subject, and detailed accounts of the boycotts of the papers Commonwealth, at Topeka in 1885, and Journal, at Kansas City, Missouri, in 1885. Four pages are devoted to a general consideration of blacklisting.

Chattel mortgages (10 pages).—Under this heading is presented a textual consideration of the high rate of interest paid for money loaned on and secured by chattel mortgages. Two part-page tables show the particulars of fifty-two chattel mortgages, showing the occupation of the mortgager, the security given, the purpose of the loan, the rate of interest, etc.

Mines and miners (110 pages).—A textual and statistical account of the coal, lead, and zinc mining industry of the state, and of the condition of the miners. Tables show the coal product of the state in 1885, by counties; returns from 49 establishments giving their location, capital invested, number of employés, the number of days their mine was in operation, and the wages and hours of labor of their employés, by occupations; the selling price of coal at Osage City, Kansas, each year, from 1871 to 1886, by months, and the wages paid miners for mining during the same period; the earnings and mine expenses of eight miners each month for the year ending June, 1886; the earnings and expenses, by items, of miners for the year ending June 30, 1886; and the number of days lost by each, the number owning homes, etc. Other tables, compiled from monthly reports of miners for June, July, August, September, and October, 1886, show their occupations, hours of labor, wages, number of days worked during the month, the number of persons in family and expenses in detail, with an analysis of each table; by months, from July, 1885, to July, 1886, a summary of the number of days worked by convict coal miners, the amount and value of the coal mined by each convict, the expenses of maintaining the convicts, and their surplus earnings. Remarks of miners are given in 12 pages of text, following which is the law of Missouri for weighing of coal. A textual and statistical sketch of the social and financial condition of the miners and their families is given, dwelling particularly on the system of paying wages in script, with a copy of the law of Ohio relating to the subject. A short table gives the earnings of an expert miner, by months, each year, from 1882 to 1886. The ages, nativity, earnings, cost of living, etc., of a number of lead and zinc miners are given; also, by counties, returns from five lead and zinc mines and four crushing establishments, showing the amount of capital of each, the cost of material consumed, the length of running time, the number of employés, etc.; and, by counties, returns from five lead and zinc smelting works, showing the amount of capital of each, the value of product, etc., and the average wages of skilled men, ordinary men, and youths, etc.; and the earnings and expenses, ages, time lost, etc., of twelve zinc smelters, by occupations.

Wageworkers, their earnings and expenses (155 pages).—Statistical tables, based on monthly and annual reports from wageworkers, give, by industries and location, the occupation of the head of the family, the number of persons in the family, and the number employed; hours of labor; the number of children at school; wages per day, and the monthly and yearly earnings and expenditures, respectively,

etc., with an analysis accompanying each table, and a summary showing, by occupations, the principal facts of the foregoing detail tables reduced to averages. A tabular statement shows the comparative cost of subsistence in Kansas in 1886, in Illinois in 1884, in Ohio in 1885, and in Massachusetts in 1883. Short tables also give the daily wages in various occupations for the years 1875, 1880, 1882, 1884, 1885, and 1886. Wages in Ohio for 1885, and in Kansas for 1886, are compared by trades. Remarks of wage-earners are given in 18 pages of text.

Flouring mills (14 pages).—Statistical tables, with textual analyses, present a list of the flouring mills in the state, their location, their value, the amount of capital invested, the number of bushels of grain ground, the value of the product, the number of employes, the wages of employes, by occupations, etc., and a recapitulation, showing the amount of capital invested in mills, by counties.

Manufacturing industries (32 pages).—This is a statistical consideration of the manufactures in the state. A general table gives returns from 425 establishments, showing, for each, its location, the character of the industry, the number of months in operation, the amount of its capital, the amount and value of its product, the items of cost of manufacture, the number of employes (men, women, and youths) and their wages, etc. The amount of capital invested, the cost of the raw material, the amount paid for labor, and the value of the product are given, by classified and by detailed industries and also by counties. A table also shows, by counties, the amount of capital invested in manufactures, including flouring mills, and the average number of employes.

Railroads (17 pages).—This subject embraces statistical tables concerning twenty-one railroads and seven street railways operating in the state. Separate tables are first given for each road, showing the number of employes and their wages and hours of labor, by occupations, the number of miles of road in the state, and the number of accidents. The tables relating to railroads are combined so as to show wages, by occupations, and the number in each occupation.

Profit-sharing (10 pages).—A textual account of profit-sharing, and the result of its trial at several establishments.

Conclusion and recommendations (7 pages).—A general consideration of the field covered by the report.

Appendix: Labor laws (31 pages).—Here is given a compilation of the laws of the state relating to corporations; to the employment of apprentices; to building and loan associations; prohibiting the sale of unwholesome provisions, and of adulterated drugs and medicines; providing for exemption from execution and attachment; relating to the attachment of wages; regulating the rate of interest; relating to landlords and tenants; to chattel mortgages; regulating the earnings of convicts; relating to convict labor; to mechanics' liens; to the liability of railroads for injuries to their employes; prohibiting the obstruction of railroads; providing for repairing public highways; for public libraries; for the compulsory education of children; prohibiting the employment of children in mines; providing for the health and safety of employes in coal mines; and for the establishment of boards of arbitration.

THIRD ANNUAL REPORT, 1887.—[339 PAGES.]

Introductory (6 pages).—A letter of transmittal and a discussion of the policy pursued by the bureau since its organization.

Fifth annual convention of chiefs and commissioners of labor bureaus, June, 1887 (22 pages).—A textual abstract of the proceedings and of the papers read at this meeting.

Pauperism (40 pages).—This subject embraces a textual consideration of the general problem of pauperism, and the results of a special investigation and of personal visits by the commissioner to the poorhouses in the counties of Shawnee, Leavenworth, Wyandotte, Atchison, and Sedgwick. In the text are given, for each county, the reasons for each person being in the poorhouse, his or her age, color, and whether

native or foreign born. Two tables give the nativity, age, sex, color, length of time an inmate, and the cause of indigency of each person who was cared for at the Shawnee county poor farm for the year ending March 31, 1887; and the number, nativity, race, etc., of those who received outdoor aid from the same county during the year 1886. Other tables give the total sum, by items, expended during the year for the maintenance of paupers in eighty-two of the ninety-five counties; a list of counties maintaining poorhouses and poorfarms, the cost of maintaining the same, the average number of inmates, and cost per capita of population, also the amount paid for outside relief, the number of families relieved and the average sum allowed each family. Several other short tables give, by counties, the cost of maintaining their poor farms and the amount expended for the maintenance of paupers without stating the number of persons relieved.

State charities and organized charitable associations (6 pages).—A textual treatment of the numerical increase of the defective, dependent, and delinquent classes. The number of the inmates in the charitable institutions in the state is given, by institutions, for the two dates June 30, 1886, and November 1, 1887, showing the increase and percentage of increase.

Wageworkers, their earnings and expenses (117 pages).—Statistical tables, based on annual reports and monthly reports for part of the year, from wageworkers, give, for each locality and for each month, the number of returns received, and the total, average, and percentage earnings and time employed of fathers, mothers, sons, and daughters, and the total, average, and percentage expenditures per family, by items, with a summary and textual analysis of the tables for each locality. These tables and analyses embrace 54 pages. Summaries give, by occupations, the number of returns, the average size of family, the average number of days worked, the average earnings and expenses per month, the daily and per capita income and expenses, the average daily wages for time actually worked, the number of families renting houses, the average monthly rent paid, and the average number of rooms to a family; by classes, fathers, mothers, sons, and daughters, the number of each class, the total and average number of days employed, and the total and average earnings; and, by items of expenditure, the average monthly expenditure per family and per individual and percentage of total expenditure. The annual reports are tabulated separately and give the occupation, age, residence, hours of labor, wages, number of days lost, the cost of living, etc., of each of 444 individual wage-earners. A special table is given for miners. A summary, by occupations, presents the same facts that are shown in the summary by occupations for the monthly reports. Other shorter tables give the expenses of each of ninety families, in detail; the amount of coal dug each month of the year ending June 30, 1887, by two miners; the average wages in different occupations for the years 1875, 1880, 1882, 1884, 1885, 1886, and 1887; the average number of days worked, and the average yearly earnings in different occupations for the years 1885, 1886, and 1887; the average wages and number of days worked, by occupations, in Iowa in 1887, in Kansas in 1877, and in Ontario, Canada, in 1886; the earnings and expenses of a skilled workman in Topeka, for the first six months of 1887 compared with the same period of 1886. Opinions of workmen on various subjects are given in 20 pages.

Flouring mills (18 pages).—Statistical tables, based upon returns from 307 flouring mills located in seventy-five different counties, with textual analyses of the tables, give their location, their value, the amount of their capital, the number of bushels of grain ground, the value of their product, the number of employes and their average wages, by occupations, etc. Recapitulations give, by counties, the capital invested in mills and the number of bushels of grain ground.

Manufacturing industries (49 pages).—A statistical consideration of the manufacturing industries in the state. A general table gives returns from 513 establishments, arranged by counties, showing the character of each industry, the number of months in operation, the capital employed, the value of its product, the items of cost of

manufacture, the number of employes (men, women, and youths) and their wages, etc.; the amount of capital, the cost of material, the amount paid for wages and the value of the product by classified and by detailed industries, and by counties. The number of establishments and the amount of their capital is compared, by industries, for the years 1882, 1886, and 1887. Additional tables give, by years, from 1871 to 1887, the number of live stock of each kind received at the stock yards in Wyandotte county, and the numbers which went for packers' and city use. Remarks of employers are given in 8 pages of the text.

Coal operators (7 pages).—Under this head are presented statistical tables based on reports from thirty-eight mines, showing for each its location, the amount of capital invested, the price paid for mining, the wages of employes by occupations, etc., with a recapitulation by counties; also the number of miners, and the number of bushels of coal mined each month for nine months in a small mine in Osage county.

Railroads (30 pages).—Statistical tables concerning railroads in the state. Separate tables are first given for each road, showing, by occupations, the number of employes with their wages and hours of labor, the number of miles of road, and the number of accidents during the year. These tables are combined so as to show the average wages of each class of railroad employes in the state. A comparative statement is also given showing the average wages paid railroad employes in the state for the years 1885, 1886, and 1887. Tables for individual street railways present the same facts as those for railroads. A table also gives the total number of street railway employes in each occupation, and their average daily wages and hours of labor for 1886 and 1887.

Strikes (13 pages).—A textual account is given of several local strikes, and tables give a list of strikes occurring in the state during the year, their duration and result, etc. A table from the Third Annual Report of the United States Department of Labor gives a list of strikes by years, from 1883 to 1886, their locality, duration, the losses to employers and employes, the number of strikers, etc.

Labor and education (9 pages).—An article by Prof. Porter Sherman on Labor and education.

Conclusion (10 pages).—This includes a textual consideration of the past year's labor legislation in the state. A bill providing for the encouragement of cooperative societies and a bill relating to the payment of wages in scrip passed and became laws. Bills providing for the weekly payment of wages failed to pass. A short table arranged by groups of industries—manufacturing, mining, and transportation—for the years 1886 and 1887, and a statistical table of the industries of Fort Scott follow.

FOURTH ANNUAL REPORT, 1888.—[305 PAGES.]

Introduction (35 pages).—A textual consideration of the condition of labor, treating particularly of weekly payment of wages; the coal screen law; the enactment of a law providing for the issuing of a license to stationary engineers, with a table showing the number of steam boiler explosions in 1887; and child labor and education. A review of the effects of organized labor upon state legislation is appended.

Industrial education (31 pages).—A textual consideration of the need for industrial education, in which are quoted the views of a large number of gentlemen connected with or interested in industrial schools. A sketch of industrial education in Kansas is included.

Flouring mills (25 pages).—A textual and statistical account of the milling industry of the state. Tables give the location, motive power, value, capital, capacity, number of bushels and value of grain ground, and the number of employes of every mill in the state, from June 30, 1887, to June 30, 1888. A recapitulation, by counties, is added, and the same facts are presented separately for sixteen of the largest mills of the state, and for mills which ground over 40,000 bushels of grain. Other tables

give the number of mills, each year, from 1885 to 1888, and systems of operation. The wages for a number of employes are given in textual form.

Manufacturing industries (44 pages).—A statistical consideration of manufactures in the state. A general table gives returns from 595 establishments, showing the location of each, the character of its industry, number of months in operation, amount of capital, value of product, cost of manufacture, by classes of items, and the number of employes (men, women, and children) and their wages. The amount of capital, the cost of material, the value of the product, and the amount paid for labor are given, by classified and by detailed industries and also by counties. The number of establishments and the amount of their capital are compared, by industries, for the years 1886, 1887, and 1888. The tables are followed by textual remarks of employers on subjects connected with their particular business.

Coal operators (11 pages).—A textual and statistical account of the coal mining industry of the state. Tables give the amount of coal mined in 1887, by counties; returns from the principal mines, showing, by establishments, their location, the number of their employes, the wages paid to employes, by occupations, the number of days in operation, etc., with recapitulations, by counties, presenting the same facts reduced to averages, and a statement showing the number of bushels of coal mined, by months, by two miners, and their earnings therefor.

Building and loan associations (18 pages).—This consists mainly of a textual consideration of building and loan associations in the state, and of the methods employed in conducting the business of these institutions. A list of such associations in the state is given, by name and locality. Tables also give for each the date of its organization, the number of shareholders, the value of shares, the amount of profits, assets, and expenses, etc. Under the head of remarks are given annual statements of a number of building and loan associations, showing their receipts and disbursements during the year and the workings of payments and loans on shares.

Wageworkers (97 pages).—Statistical tables and textual analyses, based mainly on reports of wageworkers, present for each locality and each industry the number reporting, the aggregate and average wages of individual members of the family, the number of children at school, and the aggregate and average monthly expenses of families in detail.

Railroads (32 pages).—This part of the report contains statistical tables concerning railroads and street railways in the state. Separate tables are first given for each road, showing, by occupations, the number of employes, with their average wages and hours of labor, the number of miles operated by each road in the state, and the number of accidents during the year. These tables are combined so as to show the number of employes and their average wages by systems of roads. Average wages, by occupations, are given for the years 1885, 1886, 1887, and 1888.

Conclusion (3 pages).—This embraces a general textual review of the results of the investigation, including a short table giving the average number of employes and the total amount paid in wages in the three groups of industries, manufactures, mining, and transportation for the years 1886, 1887, and 1888.

FIFTH ANNUAL REPORT, 1889.—[407 PAGES.]

Industrial statistics, manufacturing industries, flouring mills, newspapers, coal mining (187 pages).—This subject embraces a textual and statistical consideration of each class of industries separately, based on returns received from manufacturers and others throughout the state. The text includes statements and remarks of manufacturers, publishers, and mine operators not included in the tables. The tables give, by individual establishments, the kind of business carried on, the amount of capital invested, the time in operation, the number of employes and their hours of labor, the value of the product, the amount paid for labor, etc. The tables for the different industries, while not entirely similar to each other, cover in general the ground indicated. The tables for newspapers give a list of publications arranged according to the fre-

quency of their issue, date of first issue, etc. The tables for mining, in addition to the foregoing facts, show the number of bushels of coal dug, and gross earnings of each of 109 miners each month, from October, 1888, to September, 1889. The conclusion gives tables summarizing the foregoing facts, arranged by counties and also by classified industries, and a statement giving the number of establishments, with the amount of capital invested, by industries, for the years 1886, 1887, 1888, and 1889.

Labor statistics: Wage tables (84 pages).—This embraces statistical tables and textual summaries, based on reports from workmen in various localities and occupations, obtained by personal solicitation. Separate tables for each locality, occupation, and month give the number reporting, the aggregate and average number in families, the aggregate and average earnings of each member, the number of days employed, etc., and total and average monthly family expenses, by items, showing the percentage of each item of expenditure of the whole. Summaries, by occupations, for the full period of twelve months and for each locality, show the average number of persons per family, the average daily wages, average earnings of fathers, yearly income and expenses per family, the number of days worked in twelve months, and the percentage of families receiving an income below the average and expending less than the average.

Labor statistics: Workingwomen (46 pages).—This is a statistical and textual consideration of the employment of women in the state, based on information obtained through personal interviews with working-girls. The tables numbered I to XII cover returns from 147 girls, representing thirty-three occupations, in the cities of Atchison, Kansas City, Topeka, and Wichita. The text embraces comments on the tables, and extracts from remarks of the agents of the bureau, of employers, and of the girls. A preliminary table shows the number of workingwomen in six of the largest cities in the state, by occupations. Table I, based on 147 returns, shows, by cities and individuals, their occupation, nativity, nativity of parents, conjugal condition, whether parents are living, and the number of years at school. Table II shows where working-girls live, by occupations. Table III gives their hours of labor, the number of weeks worked, the number idle and the cause. Table IV shows their present age, age at beginning work, the number of towns worked in, the number of occupations engaged in, the length of time they worked, and the average wages they received as apprentices. Table V shows the condition of their health, by industries. Table VI shows the sanitary condition of the workroom. Table VII states the time allowed for dinner. Table VIII shows the number who devote time to housework and sewing, besides regular occupations. Table IX shows average weekly wages and average weekly expenses, etc. Table X gives income and expenses from all sources. Table XI is a summary of yearly income and expenses, with average, by industries. Table XII presents the facts of the preceding table reduced to percentages.

Labor statistics: Labor organizations (8 pages).—This subject embraces returns received from forty-five labor organizations in different parts of the state, with textual extracts from their remarks, and two tables, showing the name and location of the organization, the amount of work this year as compared with last year, the hours of labor, average daily wages and cost of living for the last two years compared, and the number of days lost per member through inability to obtain work; the per cent. of union men employed full time; the per cent. of union men to whole number in the same trade, and the increase or decrease in the number of transients seeking employment.

Labor statistics: Railroads (48 pages).—Statistical tables, based on reports from railroads and street railways, give, separately for each road of the state, the number of employes and their hours of labor, wages, and earnings by occupations; the average number of miles run by different employes; the number of accidents occurring; the number of miles of road in operation in the state, etc.

Labor statistics: Street railways (9 pages).—Statistical tables, based on reports from

nineteen street railways in the state, give, separately for each road, the number of employes, their hours of labor, wages, and earnings, by occupations; mention of the accidents and of strikes occurring during the year is also made.

Conclusion (6 pages).—This is a general textual consideration of the result of the investigation, and of the condition of labor in the state during the year, with two short tables, giving a comparison of wages in Des Moines, Iowa, and Topeka, Kansas, and the number and aggregate wages of employes in the three groups of industries—manufacturing, mining, and transportation—for the years 1886, 1887, 1888, and 1889. A compilation of the laws providing for the health and safety of employes in coal mines; relating to mechanics' liens; providing for the payment of interest on wages, and relating to the attachment of wages is added.

SIXTH ANNUAL REPORT, 1890.—[234 PAGES.]

Introduction (3 pages).—A letter of transmittal and an outline of the work done by the bureau during the year.

Child labor (59 pages).—This topic is devoted to an investigation of the extent to which children are employed in the state, and to the conditions under which they labor. It includes an extract of a paper on child labor in England, by William F. Willoughby; opinions and suggestions of county and city superintendents regarding the enforcement and adequacy of the law requiring school attendance, with a copy of the law; and the statements of employers engaged in industries in which children were employed, showing, in tabular form, the number, sex, and occupations of children over 12 and under 15 years of age, the highest, lowest, and average weekly wages paid, the hours of labor, the age at beginning work, the effect of employment on their health, the number of years they have attended day or night school, the number who can read and write, nativity of parents, etc.

Organized labor (136 pages).—This is a textual and statistical account of the condition of organized labor in the state. The text includes a copy of an agreement entered into by the management of the Atchison, Topeka and Santa Fé Railroad and the men engaged in its train service; an account of strikes and lockouts in which local unions were engaged since January 1, 1885; remarks by different associations as to the influence convict labor had upon their trade, what the effect of foreign immigration had been, and what legislation would be of advantage to them; and analyses of the general tables.

The tables, compiled from returns received from 35 trades unions, from 25 Knights of Labor assemblies, from 43 railway organizations, and from 9 divisions of the Order of Railway Conductors, show separately for each organization, its name, location, date of organization, the number of charter members, the present membership, the number owning and renting houses, the daily wages and yearly earnings, the frequency of payment of wages, the increase or decrease of wages during five years, the hours of labor, the average number of weeks employed during the year, the annual cost of maintaining organization, the amount of benefits paid out on account of accidents, sickness, and death, and the number of apprentices permitted to each of the several trades and the years of service required. Summaries show, by occupations, the number foreign born, the number belonging to secret societies, the number carrying life insurance and the average amount carried, the number of years they have followed their trade, the number of time and piece workers, the intervals at which their wages are paid, the number married, the number of children, the number of children at school and at work, the number owning homes and the number of rooms to each family, the number of homes paid for, the number reporting homes mortgaged and the amount of mortgages, the number renting houses and the number of rooms to each family, the average amount of rent paid per month, the number reporting savings and the amount thereof, etc.

Appendix (20 pages).—Under this heading are given the proceedings of the second annual convention of the Kansas State Federation of Labor, held at Topeka, February 16 and 17, 1891, and a copy of its constitution and rules of order.

SEVENTH ANNUAL REPORT, 1891.—[227 PAGES.]

Introduction (4 pages).—The introductory part discusses briefly the eight-hour law, the sanitary conditions of factories and workshops, and the safety of the employes therein, and child labor, and reviews the work done by the bureau during the year.

The eight-hour law (27 pages).—This part of the report treats of the eight-hour law, gives a copy of the act, a decision of the state supreme court on same, and tabulated reports from state institutions, from police commissioners, from city and county clerks, and from trades unionists, showing the workings of the law and to what extent it has been complied with. The subject closes with reports from labor commissioners of various states, showing the progress made toward a shorter work day.

Operative railroad labor (81 pages).—This is an investigation of the condition of operative railroad labor in the state, and is chiefly based upon data furnished by the employes of five railroad systems, representing 81 individual engineers and 31 conductors, and presented in tabular form. Table I shows the total number of trips made and the total number of days employed. Table II shows the number of hours and average pay per trip. Table III shows the number of trips run for wages specified, and the average number of hours run for specified wages. Table IV shows the number of miles to trip and average pay for same. These are followed by extracts from the correspondence had with the engineers and conductors explaining more fully the condition of this class of workmen. Two other tables are given, of which the first is devoted to returns received from engineers, and the second to returns received from conductors. These tables are each divided into five groups, to correspond with the five railroad systems on which the parties reporting were employed. They give the details of trips run, such as the date of run, kind of train, hours on duty, miles run, overtime, and pay per trip, etc.

Comparison of rate of daily wages and time lost for a series of years (85 pages).—The information under this head is given chiefly in tabular form, and is based upon data taken from individual budgets of wage-earners collected in the different years under which they appear. The first table presented gives, by trades, the number reporting daily wages in each year, from 1885 to 1890. The next table gives the average daily wages for each trade reporting, each year, from 1885 to 1890. Other tables show the number of employes reporting days lost, by trades, each year, from 1885 to 1889; comparative prices of food in the cities of Topeka and Kansas City, Kansas, each year, from 1885 to 1890; individual daily wages, by trades, each year, from 1885 to 1890; classification of daily wages and of days lost, by trades; the average number of days worked, average daily and yearly earnings, the yearly cost of living, and the average monthly rent per room, for 1888 and 1889, in the cities of Atchison, Kansas City, Leavenworth, and Topeka, for each trade reporting; and the average daily wages of union and of non-union workmen, by trades, for 1890.

Lead and zinc mining, crushing, and smelting (9 pages).—Statistical tables are here presented, based on returns from operators and miners, with a brief sketch of the industry. The tables, eight in number, show the number of acres of land controlled and developed and the product therefrom for 1891; the number of men employed, amount paid for wages, average daily wages, and average number of hours worked per day in 1891; the amount expended in unproductive mining, expense to company and contractors, and average selling price of ore in 1891; the capital invested and used in operating crushers and concentrators; months in operation in 1891; cleaning capacity of shift, etc.; the amount of raw material crushed and concentrated, ore sold, and total value of all products in 1891; the average number of crushers and concentrators, their average daily wages, total wages paid, and average selling price of material in 1891; for smelters, the size of plants, total capital invested, tons of ore used and its value, number of employes and wages paid, total expenses, and the output of spelter and its value in 1891; and the occupations of

employés and average number employed, average number of hours worked and average wages paid in each smelter reporting.

A statement of the output of the Galena mines each year, from 1886 to 1890, and in detail for 1891, and the work done by the concentrating mills, by C. T. Dana, editor of the Galena Times, is also given.

MAINE.

FIRST ANNUAL REPORT, 1887.—[243 PAGES.]

Letter of transmittal (4 pages).—This gives a general consideration of the powers and duties of the bureau.

Labor bureaus (8 pages).—This comprises a list of labor bureaus in the United States, July 1, 1887; a history of the organization of the bureaus in the states of Massachusetts, Pennsylvania, Ohio, and New Jersey; and a copy of the act creating the Maine bureau.

Proceedings of fifth annual convention of chiefs of bureaus of labor, June, 1887 (42 pages).—Under this heading is given a textual report of the proceedings at the fifth annual session of the national convention of chiefs and commissioners of bureaus of labor, held at Madison, Wisconsin, June 8, 1887. It embraces the following papers: Address of the president, Carroll D. Wright; Equitable division of profits, by N. O. Nelson, of Saint Louis; Emigration and labor, by Fred Shurr, of Milwaukee; True nature of profit, by Prof. Folwell, of the University of Minnesota; Statistics as a basis of legislation, by C. C. Bonney, of Chicago; Dictation of wages, by C. S. Byrkit, of Des Moines; and What wage-earners are promoted, by Jules Bleyer.

Wages, cost of living, etc., of wageworkers (67 pages).—This subject embraces statistical tables, compiled from returns from wageworkers, giving, first, a tabulation of the returns, showing, by individuals, their occupations, nativities, ages, residences, hours of labor, wages, number of days lost, by causes, the earnings of the family, whether owning a home or not, and answers to a large number of questions bearing on their social condition, with a recapitulation, by occupations; the rate of wages, by industries and occupations, derived from special returns obtained from twenty towns in different sections of the state; the comparative wages paid in the general trades in European countries and in Maine; the average weekly wages paid agricultural laborers abroad, taken from consular reports; the number and wages of railroad employés in the state, by occupations and name of road; number of railroad accidents, etc; the cost of food, by items, for an American, an English, a German, and a French Canadian family in Lewiston, Maine, for July, 1877, July, 1882, and July, 1887; the cost of food and clothing in 1887 for a family in Rockland; the retail prices of provisions in Lewiston at different dates, from 1865 to 1887, and in Augusta in the months of September and October, 1887; the prices paid by a family for provisions and clothing during the years 1866, 1876 and 1886 at Rockland; and the bill of fare for convicts in the Maine state prison. This is followed by remarks of workmen and workingwomen on topics of interest to wage-earners, including the condition and views of fishermen, and a tabular statement showing the extent of the cod and mackerel fisheries of twelve states with the relative rank of each, and the location of fishing banks.

Manufactures (28 pages).—Under this heading are presented statistical tables, based on returns from manufacturers, showing, by establishments, the number of weeks each was in operation, the amount of capital invested, the cost of buildings and grounds, the cost of machinery and repairs, the amount paid for rent, taxes, and insurance, the value of raw material used, the total amount paid in wages, the total expenses for the year, the number and sex of employés over and under 15 years of age, respectively, their wages, the number of accidents, and the value of the product. Tables

from the Third Annual Report of the United States Commissioner of Labor give a list of all strikes and lockouts occurring in the state from 1881 to 1886, by years and industries, showing, for each strike or lockout, its date, duration, cause, result, location, the number of employes, and their hours of labor and wages before and after the suspension, the cost to employers and employes, whether strike or lockout was ordered by an organization, the number of strikes, etc. A brief textual notice of strikes occurring in the state in 1887 is added. The total number of paupers, the expense for maintaining them, and the way in which they are cared for are given by counties.

Labor organizations (73 pages).—This chapter embraces a textual account of labor organizations in general; a brief history of the principal orders existing in Maine, with a table showing the progress of the state grange in membership from 1874 to 1887; a copy of the act concerning fortnightly payment of wages, and correspondence relating to it; an account of building and loan associations, and their plan of operation; a general consideration of cooperation and profit-sharing, and statistics of the Rochdale Equitable Pioneers, from 1841 to 1867, based on data taken from the seventeenth annual report of the Massachusetts bureau of labor; an account of cooperative associations in Maine, including copies of the balance sheets of the Lisbon Falls Cooperative Association, and the Sabattus Cooperative Association; and a textual report, in 8 pages, of the deputy commissioner of labor, giving a copy of the act to regulate the hours of labor and the employment of women and children, which provides for the appointment of a deputy commissioner of labor, and a consideration of its provisions.

General statistics (18 pages).—This part of the report gives returns from local officers showing the valuation of property, the number of polls and farms, etc., in different counties; the number of manufacturing industries by kinds and counties; an account and list of cotton mills and the amount of their capital; the number of establishments, number of employes, etc., for the years 1850, 1860, 1870, and 1880, engaged in the woollen industry, taken from the United States census report of 1880; a list of the woollen companies doing business in the state in 1887, the date of establishment and capital of each; and the number and tonnage of vessels built in the state and engaged in fisheries in 1887, by customs districts.

SECOND ANNUAL REPORT, 1888.—[199 PAGES.]

Introduction (5 pages).—This contains a general consideration of labor bureaus and the proper methods for conducting investigations, and recommendations to the legislature for the passage of an act compelling manufacturers to make returns in order to facilitate the collection of statistical data of the productive industries of the state.

Report of deputy labor commissioner (12 pages).—Under this title is given a textual report of the result of the exercise of the duties of the deputy commissioner as inspector of factories and workshops, including various labor laws and comments on their enforcement.

Sixth national convention of the chiefs of bureaus of labor (20 pages).—This gives a textual report of the proceedings of the convention. It embraces the following papers: Settle the apprenticeship question by inaugurating industrial schools, by T. V. Powderly; a paper on the same subject by James H. Smart, president of Purdue university; and the Bread line, by Matt J. Simpelaar, of the Wisconsin bureau.

Workingmen's returns (24 pages).—Statistical tables, covering 12 pages, and compiled from returns from wageworkers, show for each individual his occupation, nativity, age, residence, hours of labor, wages, number of days lost and causes, the earnings of his family, whether owning a home or not, and various other facts bearing on his social condition. Remarks of workingmen are given in 10 pages of text.

Workingwomen (85 pages).—Statistical tables, covering 24 pages and based on

returns from workingwomen, give, by industries, for each workingwoman her occupation, nativity, residence, conjugal condition, hours of labor, earnings, amount of time lost, etc.; also by industries, whether the workingwomen are boarding or not, the time allowed for dinner and how the dinner is taken, the price of board, the sanitary conditions of work as to good air, water closets, safeguards against fire, etc. This is followed by remarks of workingwomen, and by a textual report of a special agent, Mrs. Flora E. Hains, which treats of the social conditions of female operatives both at the mill and at home.

Manufactures (22 pages).—Under this heading are presented textual and statistical returns from manufacturers of boots and shoes and woollen and cotton goods. Tables give, by establishments, the number of weeks each was in operation, the value of the plant, of the raw material used and of the product, the amount of capital invested, the amount paid in wages, the number and sex of employes over and under 15 years of age, respectively, and the number of accidents occurring, with recapitulations for each industry, and the retail prices of various commodities at Augusta, Maine, for the years 1858, 1868, 1878 and 1888. The text gives remarks of manufacturers, the result of the investigation of child labor, which includes reports from school officers; the plan of profit-sharing offered by the Ara Cushman Company, being a letter to the employes of the company, of May 8, 1888, and a letter by Ara Cushman to the Maine commissioner of labor, of December 19, 1888.

Appendix: Labor laws of Massachusetts (29 pages).—This contains copies of various laws of Massachusetts, providing for the inspection of workshops and factories; relating to the discharge of employes; to employers' liability for injury to employes; regulating hours of labor of women and children; prohibiting the employment of children in cleaning dangerous machinery; requiring employers to provide suitable seats for female employes; relating to the employment of minors unable to read and write the English language; providing for proper meal times for women and children; for the health and safety of employes in factories; prohibiting the locking of doors during the hours of labor; requiring accidents in factories to be reported; relating to the employment of children; providing for the weekly payment of wages; for the health and safety of employes in factories and workshops; and for proper ventilation of public buildings and schoolhouses; requiring fire escapes in factories and public buildings; providing for the inspection of buildings alleged to be unsafe; requiring means of communication between engineers' and machinery rooms; and providing for safeguards against fire in hotels.

THIRD ANNUAL REPORT, 1889.—[190 PAGES.]

Introduction (2 pages).

The granite industry (50 pages).—This embraces a textual and statistical account of the granite industry of the state and of the condition of employes in this industry. The text gives an article by a granitecutter on graniteworkers in the state; an account of the principal granite companies, giving, by quarries, the number of men employed, etc.; an account of a strike at Hurricane Island in the fall of 1888; accounts of the Granite Cutters' Union and the Paving Cutters' Union; and remarks of graniteworkers. The tables give returns from granite operators, showing the location of the quarry, the number of days operated in 1888, the average number of employes, the amount of capital invested, the value of the gross product, and the average weekly wages of employes, by occupations. Returns from graniteworkers show their ages, nativities, residences, hours of labor, earnings, number of days lost during the year, the number owning homes, etc., in different tables for stonecutters, pavingcutters, quarrymen, etc.; the expenses of living, in detail, of a number of employes, and the prices of board, rents, provisions, and fuel, at various places where granite quarries are located.

Lime and slate industries (19 pages).—This comprises a textual account of lime and slate deposits in the state; returns from twenty-nine lime manufacturers, giving

for each the number of quarries and kilns, their location, the number of days in operation during the year, the amount of capital invested, the average number of employes, the amount of the product and the weekly wages and annual earnings of employes, by occupations; the average weekly wages when fully employed, and returns from lineworkers, giving their nativities, occupations, hours of labor, daily wages, number of days lost during the year, etc.; and the income and cost of living, by items, for a number of workingmen. The average weekly wages of 209 employes of the Monson Maine Slate Company are also given, by occupations.

The shipbuilding industry (25 pages).—This part of the report presents statistical tables, giving, by locations, the number of shipyards and the average number of employes; the average wages, by occupations, paid at various shipyards in and out of the state, for one or more of the years 1886, 1887, 1888, and 1889; from consular reports, the wages of employes of shipyards in 1884, and the prices of provisions in certain foreign countries; and returns from employes, giving for each his age, nativity, residence, hours of labor, daily wages, the frequency of payment, etc., and the expenses of living, in detail, for a number of shipcarpenters and miscellaneous workingmen. Remarks of shipcarpenters are given in two pages of text.

Seventh annual convention of the chiefs of bureaus of labor (36 pages).—This gives a textual report of the proceedings. It embraces the address by the president, Carroll D. Wright, a list of labor bureaus, with the date of organization and name of the chief or commissioner of each, and a paper by Mr. Betton, commissioner of the Kansas labor bureau on the Dressed beef monopoly. This paper is a textual and statistical inquiry as to whether the price of meats has or has not advanced in consequence of the meat business being in a few hands, and a sketch of the growth of the meat industry. Tables give the price of different meats at Armour's, Chicago, in 1889, and at local butchers' shops for the years 1879, 1881, and 1889; the number of sheep, swine, and cattle in the United States for 1870 and 1880, and in the principal cattle-raising states in 1880, and in one of the years 1884, 1886, 1887, or 1888; also, prices at the Kansas City stockyards of steers and hogs, each year, from 1878 to 1889; receipts at the same yards, from 1880 to 1888; receipts of cattle at Chicago, from 1883 to 1888, and the current price of beef cattle and beef products at Kansas City, in December, 1885, and in December, 1888. This is followed by extracts from remarks made by a number of others in attendance.

Labor laws (17 pages).—Copies of laws of the state, abolishing imprisonment for debt except in cases of fraud; regulating hours of labor; relating to the employment of women and children; providing for fortnightly payment of wages; establishing a bureau of industrial and labor statistics; prohibiting conspiracy and intimidation of employes; relating to peddlers and hawkers; and prohibiting the sale of votes.

General statistics (31 pages).—This chapter contains statistical tables giving the taxable valuation of property, the number of polls, the tax rate, the number of horses, oxen, etc., by towns, for each county in the state, with a recapitulation compiled from the lists of the valuation commission. A tabular statement from the report of the valuation commission, made in 1881, also shows, by counties, the number of polls, and the valuation of estates and wild lands in the state for that year.

FOURTH ANNUAL REPORT, 1890.—[222 PAGES.]

Introduction (2 pages).

Agriculture (86 pages).—This chapter contains a textual and statistical consideration of the condition of agriculture and of farmers in the state, based on information obtained from representative farmers in all parts of the state. The text includes extracts from remarks of farmers; an article by Edward Wiggin on the History and resources of Aroostook county; extracts from the address of William Freeman before the Farmers' National Congress, at Council Bluffs, Iowa, August 28, 1890, on the condition of agriculture in New England, and particularly in Maine; and a statement of the growth in membership of the State Grange each year, from 1874 to 1889. The

returns from farmers are embraced in a single table of 40 pages, giving, by counties and individual returns, the size of the farm, the number of acres cultivated, the value of the real estate and of farm implements, etc., the number and value of live stock, the value of farm products, the wages paid hired help, etc., with a recapitulation by counties. A short introductory table, taken from one of the Pennsylvania reports, shows the yield of the leading agricultural products in the United States for each of the years 1849, 1859, 1869, and 1879.

Abandoned farms (43 pages).—This chapter consists of a statistical table, based on returns from farmers, giving, by counties and towns, the number, size, and value of abandoned farms with and without buildings, etc., with a recapitulation by counties. Brief textual explanatory notes are added.

Strikes (30 pages).—This contains a textual account of the causes and results of strikes occurring in the state during the year 1890.

Report of the deputy commissioner (22 pages).—Under this head is given the textual report of the deputy commissioner of labor as inspector of factories, treating of his success in enforcing the ten-hour law, the laws concerning fire escapes, child labor, etc., an account of accidents occurring, a copy of the Massachusetts general specifications for fire escapes on factories and public buildings, an illustration of the most desirable kind of fire escape, and a report of the fourth annual convention of the International Association of Factory Inspectors, 1890, containing a list of papers read at the meeting, and the address in full of the deputy commissioner of labor, S. R. Campbell, of Maine, on the restriction of hours of labor in factories and workshops.

Appendix: Labor laws of Maine (27 pages).—This gives a compilation of the laws of the state establishing the bureau of industrial and labor statistics, as amended; regulating hours of labor; relating to the employment of women and children; providing for fortnightly payment of wages; prohibiting conspiracy and intimidation of employes; and the law of Massachusetts providing for the Australian ballot system.

Miscellaneous tables (4 pages).—This embraces several short tables, showing the population of Maine for the years 1870, 1880, and 1890, and the net increase or decrease each decade from 1860 to 1890; a list of cotton, silk, and woollen mills of the state, the location of each, the number of spindles in each cotton mill for 1880 and 1890, the number of spindles in each silk mill for 1890, the number of sets of cards in each woollen mill in 1880 and 1890, and the tonnage and shipping owned in the state in 1880 and 1890, by counties.

FIFTH ANNUAL REPORT, 1891.—[230 PAGES.]

Introduction (3 pages).—This reviews the work done by the bureau during the past year.

Individual reports of workmen (140 pages).—This chapter presents statistics relating to many classes of workmen, based on information obtained from them through the personal visits of agents of the bureau to a large number of the mills, shops, and factories in the principal manufacturing towns in the state.

Five pages of text, preceding the tabulated reports, give a general summary of some of the more important statistics derived from the tables.

The tabulated reports are arranged by trades and occupations, and given separately for skilled and unskilled workmen. They show for individual workmen, their ages, nativities, residence, wages, hours of labor, yearly earnings and other income, their expenses for rent, food, clothing, fuel and lighting, society dues, life insurance, and other things, the yearly surplus or deficit, the number of days lost, by causes, the value of the homes owned and the amount of mortgage thereon, the rate of interest on the mortgage, the number of persons in the family and the number of those who are at work, the frequency of payment of wages, and information bearing on their social condition, with a recapitulation. This is followed by a table giving, by occupations, the number of men employed and the daily wages paid them.

by railroad corporations operating in the state, as shown by returns to the railroad commissioners.

The chapter closes with twelve pages of text devoted to the expression of opinions and views of workmen on their industrial situation.

The shoe industry in Auburn and Freeport (12 pages).—This article is by Mellen Plummer, of Auburn, and relates to the shoe industry, as represented by the thirteen firms of Auburn and Freeport. It gives an account of the classes of goods made, the make-up of a congress shoe, and tables showing the growth and progress of the business for various years from 1844 to 1891, and the number and average weekly wages of workmen employed on men's goods and on women's goods, by classified branches of work.

Maine's ice industry (20 pages).—This part of the report was prepared by L. C. Ballard. It gives an account of the development and growth of the ice industry of the state to the present time, including the present method of building houses for its storage, and tables showing the yearly crop harvested from 1881 to 1890, and the details of the crop harvested in 1891 with the daily wages of the workmen employed.

Factories, mills, and shops built during the year 1891 (4 pages).—This gives statistics furnished by assessors of towns, showing the number and kinds of factories, mills, and shops for manufacturing purposes, completed or in course of erection during 1891, with estimated cost of same and probable number of hands they will employ.

Appendix (44 pages).—This gives the text of the law providing for printing and distributing ballots at the public expense and to regulate voting at state and city elections, to which are appended certain suggestions, recommendations, and forms prepared by the secretary of state for the use and instruction of municipal officers, election clerks, and clerks of cities, towns, and plantations.

MARYLAND.

FIRST BIENNIAL REPORT, 1884 AND 1885.—[312 PAGES.]

Introduction (12 pages).—This is a statement of the objects of the bureau, together with a list of the trade organizations in the city of Baltimore.

Labor bureaus (9 pages).—Under this head is given a sketch of the establishment of labor bureaus in the United States, with a statement showing the provisions made, by the different states having them, for their operation.

Maryland industries (122 pages).—This is a textual and statistical consideration of all the industries of the state showing the extent of each, the conditions of labor and laborers, and the wages paid, etc. Various short tables are also given, among them three taken from the United States census, showing the population of Maryland in 1870 and 1880; also the number of families in tenements, the number employed in manufacture, with their total wages, and the number engaged in agriculture.

Wages (38 pages).—This is a textual and statistical account of the wages paid in the different industries of Maryland, and a comparison thereof with the wages of employes in other states as shown by the reports of different state bureaus of labor, and in European countries as given in late consular reports. The tables relating to wages in Maryland show the theoretical wages, or the highest amount possible for a workman to earn laboring six days per week throughout the year, and the actual wages, calculated on the actual number of days worked.

Food prices (15 pages).—Under this head is presented a textual and statistical consideration of the quality, quantity, and cost of the food of the American laborer and of laborers in other countries. The tables presented give comparisons of the weekly expenses of mechanics' families in Maryland and in England, and of laborers' families in Maryland and in Germany; also a list of the prices of miners' supplies in the neighborhood of the mines, and a comparative food table showing the lowest and

highest retail market prices in Maryland, Massachusetts, Illinois, England, and Germany.

Strikes (7 pages).—This is a brief textual summary of all labor difficulties which occurred in the state from August, 1884, to December 31, 1885.

Opinions of the trades (10 pages).—A compilation of the opinions and remarks of those making returns to the bureau concerning the condition of labor in Maryland.

Labor laws (29 pages).—This chapter gives the laws of the state creating a bureau of industrial statistics; relating to the employment of apprentices; requiring the closing of barber shops on Sunday; prohibiting the manufacture of tin cans by convicts; relating to conspiracy; providing for exemption from execution; relating to the attachment of wages; providing for inspection of factories; requiring fire escapes in factories; providing for the health and safety of employés in factories; regulating the hours of labor of children; the hours of labor in mines; the hours of labor in tobacco warehouses; prohibiting the importation of foreign contract labor into the United States; providing for industrial education; for the establishment of mining schools; relating to mechanics' liens; authorizing the organization of trades unions; prohibiting the employment of women as waiters in places of amusement; requiring employers to provide suitable seats for female employés; providing for payment of wages in legal tender; authorizing insolvent debtors to prefer wages of employés; and providing for the punishment of larceny of packing house tokens of indebtedness. The law creating the United States Bureau of Labor is also given.

Appendix (42 pages).—This consists of copious extracts from a paper on Distributive cooperation, prepared by Carroll D. Wright, being a textual consideration of cooperation in Great Britain, France, Germany, Austria, Italy, Denmark, Hungary, Spain, Sweden, the Netherlands, Switzerland, and Australia; with an account of the Arlington Cooperative Association, at Lawrence, Massachusetts.

SECOND BIENNIAL REPORT, 1886 AND 1887.—[178 PAGES.]

Introduction (27 pages).—This is a general textual review of the condition of the industries of Maryland at the close of 1887, with a discussion of the effects of foreign immigration, containing a statement of the number and nationalities of immigrants arriving at Baltimore each year, from 1884 to 1887, the work of the German Society of Maryland, and the growth of city population; a brief review of the aim of labor bureaus, with a list of the state bureaus, and some complaints and suggestions for legislative relief submitted to the bureau by workmen.

Railroad Employés' Relief Association (13 pages).—A textual consideration of the Baltimore and Ohio Employés' Relief Association, based on reports furnished by the company and personal interviews with employés, with numerous extracts from the Relation of railway managers and employés, by Dr. W. T. Barnard.

Strikes and arbitration (61 pages).—A textual and statistical account of strikes and lockouts in Maryland, and of arbitration in the United States. A set of tables, with a recapitulation, taken from the Third Annual Report of the United States Commissioner of Labor, gives, by years and industries, the locality, cause and duration, number of hands involved, the cost, and results of all strikes and lockouts in Maryland from 1881 to 1886. Then follow a discussion of the eight-hour movement, a review of the strikes and lockouts in the state during 1886 and 1887, and, under the head of arbitration, the text of the laws of New Jersey, Massachusetts, New York, Ohio, and England relating to the subject.

Convict labor (19 pages).—A textual and statistical account of convict labor in general, with special reference to the employment of prisoners in Maryland. Tables taken from the report of the United States Department of Labor on this subject show, by states, the total number of convicts employed, with the methods of employment; also the classes of industries employing convict labor and the number of hands working in each class. Other tables show, for convict labor in Maryland, the hours worked and contract prices contrasted with free labor; also the incomes and ex-

penses of Maryland penal institutions. The text contains explanations of the different systems for the employment of prisoners, and extracts from some suggestions of the United States Commissioner of Labor as to the use of hand labor alone under the public account system.

Special trade reports (24 pages).—This chapter contains such special reports as were furnished the bureau for publication by employers and employes in various trades in Maryland, giving wages, etc., and expressing their views concerning the condition of their industries. The report of the coal miners contains a table showing for each company in the Georges Creek coal region of Maryland, its output in 1886, and the number of employes and their average earnings.

Labor laws (13 pages).—This is a transcript of the laws relating to labor passed by the general assembly of Maryland during the session of 1886, relating to the attachment of wages; regulating hours of labor of street railway employes and of miners; prohibiting the employment of female sitters in places of amusement; the delivery of ice by wagon on Sunday; and providing for the measurement of oysters. This is followed by court decisions relating to union labels, right of workingmen to strike and to boycotts.

THIRD BIENNIAL REPORT, 1888 AND 1889.—[260 PAGES.]

Introduction (25 pages).—This consists of a general textual account of the results of an investigation concerning the employment of women and children in Maryland, including a consideration of the subject of manual training.

Communications from employers (57 pages).—This chapter contains the answers of employers in the different industries of the state to questions concerning child and female labor. These replies give information regarding the supply of female labor; the effect of employment in factories upon health and morals; the capability of women as compared with that of men, and of foreign as compared with native labor; and the effect of the introduction of machinery upon the employment of hands.

Baltimore city tables (40 pages).—A list of the establishments in Baltimore city visited by the agents of the bureau is first given, followed by statistical tables showing for each industry, by establishments, the number, sex, age, wages, nationality, and hours of labor of employes, with a recapitulation by industries.

Baltimore city factories (43 pages).—The statistical tables in this chapter show for each industry for the establishments mentioned in the preceding chapter, the size of factories, with the number of doors and windows, and the number and size of the floors where hands work, the sanitary condition of the factories, and the educational condition of the women and children employed.

County tables (20 pages).—A list of establishments in the counties of Maryland, exclusive of those mentioned in the Baltimore city tables, visited by agents of the bureau, is first given, followed by statistical tables showing for each industry, by establishments, the number, sex, age, wages, nationality, and hours of labor of employes, with a recapitulation, by industries, and a summary for the whole state.

County factories (14 pages).—This chapter is made up of statistical tables relating to the county factories, similar to those given for Baltimore city factories.

Appendix (55 pages).—This presents a compilation of the laws of various states providing for punishment of larceny of packing house tokens of indebtedness; prohibiting the employment of female sitters in places of amusement; providing for health of employes in factories; regulating the hours of labor of children; prohibiting the employment of women as waiters in places of amusement; providing for the compulsory education of children; for the arrest of vagrant girls; for the protection of children; prohibiting the employment of children under 12 years of age in mines; regulating the hours of labor of women and children; prohibiting the employment of children under 10 years of age in factories; relating to the employment of children; requiring fire escapes in factories and public buildings; regulating hours of labor; prohibiting the employment of women and children in mines; providing

for the health and safety of employes in factories; requiring fire escapes in factories; regulating the hours of labor of children in factories; prohibiting the intimidation of employes; the employment of children in mines; relating to the liability of employers for injury to employes; relating to the employment of children by contract in houses of refuge; to the payment of wages to minors; securing the wages of female employes; requiring employers to provide suitable seats for female employes; securing to females freedom in selecting occupations, etc.

FOURTH BIENNIAL REPORT, 1890 AND 1891.—[398 PAGES.]

Introduction (6 pages).—The introductory part gives a general review of the condition of the industries in the state at the close of 1891, recommends the adoption of proper rules for regulating the building, inspection, and use of elevators in factories, suggests the inauguration of a system of factory inspection, etc.

The oyster industry of Maryland (128 pages).—Under this heading is given an extended report of the oyster industry of the Chesapeake bay and its tributaries. Short tables show the number of bushels of oysters measured in the state for the seasons of 1885-'86 to 1890-'91, inclusive; the number of bushels packed in the state during the seasons of 1888-'89 and 1890-'91; the entire catch taken by tong, scrape, and dredge boats during the seasons of 1887-'88 to 1890-'91, inclusive, with the value of the same and average price per bushel received per season; the number of dredging, tonging, and scrape boat licenses issued, and the revenue derived by the state each season, from 1885-'86 to 1890-'91, inclusive, and the acreage of oyster lands taken up in the several counties, by years, from 1868 to 1891, etc.

The principal tables, five in number and covering 86 pages, show the number of oyster boats, the number and nationality of the men shipped, and the wages and advances paid in the seventh district, by monthly schedules, and the number of oyster boats and men shipped per month by each commissioner, with recapitulations.

General and local laws (54 pages).—This gives an epitome of the laws of the state relating to the oyster industry, 22 pages being devoted to the general laws and the remainder of the chapter to the local laws in the several counties.

The coal industry of Maryland (35 pages).—This is a report of the coal industry of the western counties of the state, and is mainly statistical. It embraces a summary of cost of production of bituminous coal (run of mine) in forty-seven establishments in the United States, taken from the Sixth Annual Report of the United States Department of Labor, and statistical tables showing the yearly output of the coal mines in the Georges creek region, from 1842 to 1890, the shipments for each year, the aggregate tonnage shipped over the Chesapeake and Ohio canal, and the Baltimore and Ohio and Pennsylvania railroads, and the tonnage carried by the various lines penetrating the coal region, and delivered by them to the said railroads and canal; the yearly output of the several mining companies from 1885 to 1890, with increase or decrease, as compared with the prior year; the output of each company in 1890, and the number of miners employed, and the amount paid in wages; the output of the Georges creek coal trade for the week ending October 10, 1891; the weekly shipments of the mines from January 1 to October 10, 1891; the prices paid per ton for mining in various years, from 1856 to 1887; the location of the mines, with the name and address of the company operating each; the names and addresses of owners operating the smaller mines, the entire production of which is consumed by local demand, and the cost of sixteen staple articles in the coal district during 1870, 1875, 1880, 1885, and 1890, with the prices paid per ton for mining during said years.

Coal industry laws (3 pages).—This gives an abridgment of the laws of the state relating to coal mining in Garret and Allegany counties.

Wage tables of general trades (20 pages).—These tables show, by occupations, the rate of wages per day, the average number of days worked per year, and the actual daily, weekly, and yearly earnings of workmen engaged in the building trades, in the carriage trade, in the canning trade, in coal mining, in the clothing trade, in cotton

mills, in woollen mills, in furniture and piano factories, in glass works, in iron works, in the leather industry, in miscellaneous trades, in the printing trade, in the pottery industry, in railroad car shops, and in the shipbuilding trade.

Appendix (126 pages).—This gives a textual report of the proceedings of the eighth national convention of officers of bureaus of labor statistics, held at Philadelphia, May 19-22, 1891. It embraces a list of the labor bureaus then established, the address of the president, Carroll D. Wright, discussions of economic questions, reports of the current work of the several bureaus, papers by Edward H. Rogers, of Chelsea, Massachusetts, and Charles H. Simmerman, secretary of the bureau of statistics of labor and industries of New Jersey, on the Functions of bureaus of statistics of labor, addresses by Stuart Wood, of Philadelphia; J. A. Price, of Scranton; William M. Grosvenor, of New York, and P. J. McGuire, secretary of the United Brotherhood of Carpenters and Joiners of America, and a brief account of the trips made by the members of the convention to the Baldwin Locomotive Works and the Bromley Carpet Factory at Philadelphia, and to the works of the Pennsylvania Steel Company at Sparrows Point, Maryland.

MASSACHUSETTS.

FIRST ANNUAL REPORT, 1870.—[123 PAGES.]

Introduction (2 pages).

Report of the chief (194 pages).—This opens with an account of the circumstances attending the establishment of the bureau, and an explanation of the investigations attempted by the chief, showing the methods pursued and giving copies of the blanks issued. Then follow, first, a history of the condition of labor and of labor legislation in England, from the beginning of the fourteenth century to the present time; and second, a history of labor and of the condition of the laboring classes in Massachusetts, particularly since the latter part of the eighteenth century. The principal topics discussed are the origin and development of industrial questions and of shorter hours agitation; the factory system, with extracts from the testimony of various overseers, operatives, and physicians regarding it; children in factories, their employment and schooling; the wage system and its results; the homes of low-paid laborers in the city of Boston; the homes of the middle class; and intemperance. The report closes with a review of the whole subject and some recommendations presented by the chief with the hope of alleviating the evils existing under the present conditions of labor.

Appendix (222 pages).—This part of the report contains the replies given to the queries contained in the blanks addressed to employers and employes throughout the state. Textual extracts from these replies are first given, followed by tables embracing as many of the replies as could be used in this way. Fifty-five pages of text contain a summary of the information furnished by employers, relating to operative shareholders; competence earned by employes; company stores and accounts; time of payment; strikes and discharges; sanitary condition of workrooms; accidents; stoppage of wages; apprentices; change of employes and their average life; hours of labor; health influences and temperance; also some general remarks by employers. Then follows an account of the whale fishery, which is followed in turn by a summary of employes' replies relating to matters concerning their homes; education and recreation; accidents; apprenticeship; improved machinery; strikes; discharges; trades unions; hours of labor; debts of employes; comparative cost of living and wages; attendance on public worship; cooperative associations; savings banks; employment of children; effect of factory life upon women and children; and acquiring a competence; also some verbatim replies and general remarks by employes, and some remarks on workingwomen, their condition, wages, etc., by a

lady familiar with the subject. The statistical tables are nine in number. They give the number of blanks sent to employers and a list of the trades of such employers; details connected with employes in mechanical establishments, showing for each establishment reporting the number of employes, their education and illiteracy, hours of labor, earnings, and habits; the same for cotton and woollen factories, with amount of capital invested; the number of blanks sent to employes, and the occupations, nationalities, wages, annual cost of living, in detail, and total earnings of such employes, and the trades, nationalities, and wages of those owning real estate, with the value of such property and amount of mortgage indebtedness on same; also a comparison, by trades, of the highest and lowest wages in 1861 and 1869. The appendix concludes with a summary of Massachusetts laws relating to or affecting labor, from 1833 to 1869; a list of books in the state library relating to questions of industry, and a list of English official reports which refer to the subject of labor.

SECOND ANNUAL REPORT, 1871.—[655 PAGES.] ✓

Narrative (149 pages).—The opening pages of this chapter are in the nature of an introduction. They show the lines of investigation followed by the bureau during the year ending March 1, 1871, and give a statement of the instructions given to assistants. Then follows a historical account of the origin of combination and of its development into the guilds of ancient times, with their several varieties, and into the trades unions of modern days. The remainder of the chapter, covering 110 pages, is devoted to a consideration of the origin and object of strikes, together with minute accounts of the following prominent ones which occurred in Massachusetts during 1870: The cotton spinners' at Fall River; the shoemakers' at Lynn, North Adams, Marlborough, and Randolph; the wire drawers' at Worcester; the nailers' at Weymouth; and the frame knitters' at Needham.

Statistical (311 pages).—This part of the report is made up of statistical information derived from replies received in answer to blanks sent to employers and employes throughout the state, and from oral testimony relating to agricultural, commercial, domestic, industrial, and mechanical employments. Under employments classified as commercial, fisheries, land and water travel, and transportation are considered; under domestic employments, house, store, and shop work in Boston; under industrial, the making of wearing apparel, boots and shoes, cotton and woollen textiles, chemicals, food and mineral substances, and printing; and under mechanical employments, the manufacture of carriages, furniture, and metal work, and the building trades. A short table gives prices paid for convict labor. Tables follow giving the number of employes in the different occupations, their earnings, hours of labor, the itemized cost of living, and the length of working season. Among the tables based on workmen's returns one is given showing for those owning real estate the value of such property and mortgage indebtedness on same. The text embraces explanations of the tables and considerations of the methods of work and educational conditions of employes, of the employment of women, etc., with conclusions therefrom; and accounts of various cooperative enterprises in Massachusetts.

Work and home life of factory operatives, etc. (110 pages).—This chapter presents general information, derived from oral testimony before the bureau, upon the work and home life of operatives, their earnings, habits, morals, and amusements; Chinese labor, etc. Especial reference is made to the employment of children in factories and to half-time schools, the hours of factory labor, facts bearing on the ten-hour argument, the hours of labor and the employment of women and children in Europe, and the homes of low-paid laborers in Boston. There are also considerations of poverty and intemperance, and some recommendations by the chief for the purpose of calling the attention of the legislature to the subjects treated of in this report.

Appendix (71 pages).—This consists of the statements of forty-eight workmen, giving a description of their general condition and their ideas concerning existing

grievances and the remedies therefor; also explanations of the theory and practice of English half-time schools by the teachers of some of them, inspectors and other experts, and a brief sketch of friendly societies.

THIRD ANNUAL REPORT, 1872.—[598 PAGES.]

Introduction (7 pages).—This is a statement concerning the work of the bureau, showing the results brought about by the publication of the previous reports.

Statistical (332 pages).—This part of the report consists of a textual consideration, together with numerous brief statistical tables, of the returns made to the bureau by employers and employes. The employments represented are classified as agricultural, commercial, women's, industrial, and mechanical; and these classes are further subdivided for consideration. All of these industries are fully discussed and the tables, which relate to number employed, hours of labor, lost time, wages, etc., are followed by extracts from the returns and further explanations by the bureau. Thirty-five pages of text are covered by the opinions, based on personal experience of employers, regarding the results obtained under the long and short time systems.

Then follow, in the order given, a table giving a general description of the families and the itemized cost of living of ten workmen of different occupations; tables based on employes' returns showing for each man his occupation, nationality, age, earnings, cost of living, by items, value of real estate if any is owned, and the amount of his savings, together with copious extracts from the reports made; and an account of the establishment of savings banks in the state and results therefrom, the tables giving for each institution of the kind in Massachusetts the number of depositors, their sex, nationality, and occupation, and the total amount of deposits, besides various other information, and being explained by extracts from previous reports and the remarks of persons competent to testify. The chapter closes with a recapitulation by the chief of all the information it contains.

Testimony and narrative (103 pages).—This is a textual account of the general condition of the laboring classes in Massachusetts. It is compiled from information gathered from personal inspection and from the oral testimony of operatives. The chapter embraces discussions upon Chinese labor and the truck system; accounts of numerous accidents caused by unprotected machinery; the testimony of physicians and employes concerning the effects of factory labor; accounts of the strikes which occurred during the year in the state; and descriptions of the homes of the working classes, and of schools for factory children.

Argument and recommendations (96 pages).—This part of the report is chiefly devoted to the subjects, education and the purchasing power of wages. First is presented a statement of the educational condition of the state, followed by a comprehensive description of half-time schools, showing the features of the English schools, and the methods of those in Massachusetts. Then is given a very complete account, with numerous statistical tables, of the earnings of laboring men, and the purchasing power of their wages at various historic periods, beginning in England early in the fourteenth century, and in Massachusetts in 1630, and continuing to the present time. Then follow tables of comparative prices of food, clothing, and fuel, and rates of wages, from 1780 to 1864; a table compiled from the preceding tables of wages and earnings, showing the actual expenses, hours of labor, wages, and earnings for the past year of employes in the principal occupations; and some conclusions drawn from this report, and recommendations to the legislature for the amelioration of the condition of the laboring classes.

Appendix (36 pages).—This is composed of a statement by an Essex county farmer concerning agriculture; a historical sketch of cooperative associations in Germany, by Edward King; and accounts of the schools of Prussia, and their methods of instruction, by N. T. Allen; of the condition of labor and laborers in Austria and Hungary, by Paul Liptay; of the truck system in England, and of a recent strike by agricultural laborers in that country.

FOURTH ANNUAL REPORT, 1873.—[522 PAGES.]

Introduction (43 pages).—This is a historical sketch of the bureau, with an account of the recent criticisms of its reports, and a statement of the sources of information and methods of gathering the statistics presented in this report.

Statistical (199 pages).—This is a textual and tabulated arrangement of the statistics collected by the bureau during the last year. The text contains explanations and remarks concerning the tables and the testimony of persons summoned before the bureau. A table taken from the United States census of 1870 gives a classification of employments in Massachusetts, showing the number of males and females employed in each occupation. The principal subjects considered are the wages and earnings in the manufacturing and mechanical employments in Massachusetts, with a table showing the average number of persons employed in each occupation, their total earnings, average time employed and wages, and average annual earnings; wages of unskilled laborers, with a table similar to the preceding one; the cost of living illustrated by numerous short tables showing for a number of workmen the occupation, size of family, earnings, and itemized expenses, with quantities of articles consumed; also the receipts and expenses of one family each year, from 1826 to 1845, and from 1851 to 1870; savings banks, with a report of the hearing before the legislative committee on banks and banking concerning the statements made upon this subject in the bureau's third annual report, and tables showing for each savings bank in the state the number of depositors and total amount of deposits at the time the report was made, and the same for a date twelve months previous, the occupations of depositors during the past year, the number and totals of deposits by specified amounts, etc.; and the ownership of real and personal estate, with a statement of the number of taxpayers in each town or city, and the last assessment rate.

Testimony and narrative (135 pages).—This chapter begins with accounts of the labor movements in America and in England, embracing a communication from William J. Jessup, president of the Workingmen's Assembly, state of New York, giving information concerning trades unions in the United States, and the condition of the eight-hour movement; and a report of the fifth annual trades unions' congress in Great Britain and Ireland. Then follow returns from several towns and cities in Massachusetts giving comprehensive accounts of the special industrial occupations in each; and communications from different parts of the state concerning labor in the early part of the century and various other matters pertaining to labor. The next forty-eight pages are devoted to a discussion of cooperation, which includes a narrative of the present (1872) status of cooperation in England, given orally to the bureau by Robert Harper, of Birmingham; a summary of the objects and constitution of the agricultural and horticultural cooperative association of England; an article on industrial copartnerships, by Jesse H. Jones, and a criticism on cooperative experiments in England, by Charles W. Felt, of Manchester. The chapter closes with descriptions of the Naumkeag half-time school, and tenement houses in Salem.

Argument and recommendations (123 pages).—This part of the report is composed of considerations of various subjects which have for the most part been presented in the preceding pages. First in order is an account of the educational condition of the state, with a table showing the average attendance and non-attendance at public and private schools in each of the prominent cities; then follow in the order given, a statement of the present condition of labor with the testimony of operatives, and an essay on poverty, by Ira Steward; a consideration of wages; of cooperation, and of a movement toward a reduction of the hours of labor, including a paper by B. J. Butts, entitled, *Limitation of time, in relation to the production and distribution of wealth*; and answers to objections, remarks upon the ten-hour system, and a consideration of relative changes in cotton mills, from 1838 to 1867. The bureau concludes the report with a renewal of the recommendations made in former reports; and with others, based on the experience of the past year.

FIFTH ANNUAL REPORT, 1874.—[292 PAGES.]

Introduction (5 pages).

Education and employment of young persons and children (20 pages).—This is a consideration of the subject of the education of children in the state, including statistics, based on reports received from school committees, relative to the employment of children of school age, and a table taken from the last report of the board of education, showing for each of the thirty-seven towns and cities having evening schools the attendance at such schools, the time in session, number of teachers, and total expense. The chapter contains an extract from a report of the state board of education and a digest of American and European laws relative to its subject.

Statistics relative to professional men (7 pages).—The two tables which, with a brief introduction relating to the efficacy of gathering statistics by means of circulars mailed by the bureau, comprise this chapter, relate to clergymen and to teachers. The first shows for those clergymen reporting their average age, time, and expense devoted to preparation, term of service and remuneration therefor, salary and cost of living during the past year, and working hours. The second shows for all the teachers in Massachusetts the average wages per month and year, of each sex.

The sanitary condition of working people (20 pages).—This is a textual discussion of the homes, modes of life, and the injurious occupations of working people, the effects of the adulteration of food, attractive bar-rooms, workmen's building companies, duties of capitalists in relation to workmen's homes, the family relation, increase of immorality, and effects of labor on workingwomen.

Comparative rates of wages and hours of labor in Massachusetts and foreign countries (60 pages).—This chapter is composed of two statistical tables, compiled from information gathered by the bureau in Massachusetts and by agents for the United States Bureau of Statistics in foreign countries. These tables show the average weekly wages and the hours of labor of employes in forty branches of employment in Massachusetts and various foreign countries.

Condition of textile fabric manufactories in Massachusetts (51 pages).—This is a textual consideration of the condition of textile fabric manufactories in Massachusetts, consisting of a statement of the consolidated facts relating to ventilation, fire escapes, elevators, and the protection of machinery, and of brief accounts of the general condition of each of the various mills visited by the officers of the bureau, together with a digest of English laws relative to sanitary matters and machinery and accidents.

Prices of provisions, etc., in Massachusetts and in Europe (40 pages).—In this chapter there are given two tables, one showing the prices in 1872, of provisions, rent, board, clothing, etc., in Massachusetts and in forty-five representative places in Europe, the other showing the amount of each article which one dollar would purchase in each of the various places enumerated. The data upon which the tables are based were secured for Massachusetts from respectable dealers in the various articles given, and for foreign countries were taken from returns made to the national Bureau of Statistics during an investigation into the condition of laborers in Europe.

Savings banks (47 pages).—This is a report of an investigation, the chief object of which was to discover to what extent the savings institutions of Massachusetts are used by the laboring classes. Returns were made to the bureau from twenty-one banks keeping a record of the occupations of their depositors, and the information gained is presented in tabulated form, showing for dayworkers, salaried employes, professionals, those having capital invested in their business, and those depositing trust accounts, separately, the number of depositors and of deposits, the amount deposited, and the average for each depositor, the number and amount of deposits of \$300 or less, and the same for deposits over \$300, with percentages in each of the preceding cases; also the number of depositors and of deposits and amount deposited in each occupation of the five groups. One hundred and four banks, at the request of the bureau, kept a record during the last four months of 1873, of the

occupations of depositors, arranging them in groups similar to the preceding, and made reports which are here given, showing for each group the number of depositors and the amount deposited, the average amount of each deposit and the per cents of number and of the amount of deposits. A summary of these reports is also given, followed by statements from returns of ninety-seven banks as to the increase or decrease in amounts of deposits and withdrawals for the last four months of 1873, as compared with the corresponding months of 1872.

Miscellaneous (17 pages). This chapter embraces miscellaneous information, consisting of general statistics concerning various industries, operatives in mills, and other employes in Massachusetts, based on the United States census of 1870; a table showing the increase of wages in 1873 over those of 1861 in two representative mills in the state; a comparative table showing the cost of groceries, provisions, clothing, and dry goods in the years 1861 and 1873; a table showing the itemized cost of living of families in forty-one different places in Massachusetts and foreign countries; and an account of the Women's Economical Garden Homestead League.

SIXTH ANNUAL REPORT, 1875.—[513 PAGES.]

Introduction (4 pages).

The education of working children (63 pages).—In answer to a resolve of the last legislature directing the bureau to prepare a plan for the education of children employed in manufacturing establishments, such a plan is here presented, preceded by a general textual consideration of the subject, including accounts of the beginning of the factory system in England and the development of legislation regarding the education and labor of the young, and of the state of education in Prussia, with a digest of the laws relating thereto, descriptions of the methods of half-time schools in Massachusetts, and a statement of the opinions of the officers of the bureau upon the subject based on the results of their investigations.

Special effects of certain forms of employment upon female health (48 pages).—This chapter begins with a consideration of the influences that affect the health of workingwomen, showing the results to the women suffering and to society, and a statement of the errors of employ that bring about these results. Then follow accounts, based on personal investigation and interviews, of the effects upon female health of factory employments, typesetting, telegraphy, sewing machine labor, the counting of money, and the manufacture of tobacco, and some suggestions and recommendations toward diminishing the evil effects of the present systems of female employment.

Factory legislation (75 pages).—This part of the report presents the needs which exist for legislation for the protection of factory employes. The first chapter gives a chronological history of English factory legislation, followed in the succeeding chapters by an account of the burning of the Granite Mills at Fall River, with statements of the facts concerning the operatives killed or injured; statistics regarding the upper stories of mills in Massachusetts, presented in a table showing for each mill the names of the rooms in the upper stories, the number employed in them, and the means of escape in case of fire or panic; and also some general recommendations regarding the employment of children in mills, the hours of labor, the protection of operatives from dangerous machinery, and the employment of married women, the whole concluding with a brief outline of the principal points which, in the judgment of the bureau, should enter into the provisions of a factory act.

Condition of workmen's families (262 pages).—This is an account of an investigation of the condition of workmen's families in Massachusetts and forms the largest part of this report. There are 397 families represented, statistics from other states and countries being also given for the sake of comparison. The first two chapters are made up of an introduction and statements, with numerous statistical tables showing the extent of the bureau's investigations and their representative value. The tables give the names and population of places visited, and the number in each employment in each place; a classification of occupations and the average size of

families in each; the nationalities and occupations of heads of families, etc. The third chapter contains individual statements, transcribed from the notebooks of the bureau's agents, concerning each of the families represented, showing the occupations of the fathers, the earnings of all the members of the family, the condition of the family, the food used, and the itemized cost of living. The fourth chapter pertains to the cost of living in its broadest sense, that is, the relation of earnings to expenses.

The tables used show, by size of places, by nationalities, by classes of occupation, and by kind of labor, the average earnings of the fathers, of the wives at work, and of the children at work; the yearly average of combined earnings; the sources of income and the percentage supplied by each; and the yearly average expenses; also the earnings and expenses based on the size of the family; and, by the same classification as the first tables, the relation of the fathers' or combined earnings to the expenses, and the average yearly surplus or savings. Then follow a statement of the per cent. of families in debt according to their geographical position in the state, and a comparative table of workingmen's savings in Massachusetts, Philadelphia, and various European countries. The next five chapters contain an analysis of expenditures. Statistical tables are presented, together with much textual information, and the expenditures are discussed under the following heads: Rents, including a table showing the sanitary condition of workingmen's homes in Massachusetts, and descriptions of the homes of workingmen in other states, and also in other countries; fuel, with a table showing the average yearly cost of fuel to Massachusetts families; food, with tables giving the yearly average expenditure for food in Massachusetts, a comparison of the manner of living in Massachusetts and in Switzerland, and descriptions of the manner of living in various states and countries; dry goods and clothing, with tables giving the average expenditures for these articles, and comparisons of the style of dress of American and Swiss workingmen, women, and children; and, finally, sundry expenditures. The last chapter is made up of a general summary of all the facts brought to light by this investigation, a discussion of Dr. Engel's economic law, with the conclusions of the officers of the bureau, and some recommendations based on these conclusions.

Cooperation (40 pages).—This is a general discussion of distributive cooperation, containing accounts of the different cooperative associations in Massachusetts; in England, with special reference to the Rochdale Equitable Pioneer Society, and the Civil Service Supply Association, of London; and in other European countries.

SEVENTH ANNUAL REPORT, 1876.—[379 PAGES.] ✓

Introduction (12 pages).—This contains a statement of the twenty questions which constituted one of the schedules used by the bureau in taking the census of the commonwealth for the decade ending May 1, 1875, the answers to these inquiries forming the basis of this report; also an account of the work of the bureau for the past year; some results of the census, including a table showing the population of Massachusetts, and the number of each sex in each of the eight classes into which the occupations are here divided; and a statement regarding the future of the bureau.

Wage-receivers (202 pages).—Answers to one or more of the questions contained in the schedule mentioned above were received from 71,339 persons working for wages, representing 950 different occupations. The answers to seventeen inquiries were used, the abbreviated inquiries being as follows: (1) Number of persons dependent; (2) hours employed; (3) days employed; (4) daily wages; (5) yearly wages; (6) other earnings; (7) wife's earnings; (8) children's earnings; (9) unable to work; (10) who own houses; (11) amount of mortgage; (12) rate of interest; (13) number of rooms hired; (14) rent paid; (15) value of garden crops; (16) cost of living; and (17) number of volumes in library. The returns received have been tabulated, and the tables, with textual explanations, are presented in the five chapters of this re-

port. Chapter I contains a list of the occupations represented, and tables for each schedule question, showing by counties, separately for each sex, the number of schedules received, the number answering the particular question, the per cent. answering, the aggregate for all answering, and the average for each person answering. Chapter II is composed of tables showing for each county the number of each sex answering each schedule question, the per cent. answering and the average for each person answering, with a summary for the state. Chapter III contains three tables, showing the condition of the families of male wagonlaborers who have wives at work, of those who have minor children at work, and of those who have both wives and children at work. These tables show for the first, fifth, sixth, seventh or eighth, or both, thirteenth, fourteenth, fifteenth, and sixteenth questions previously enumerated, the number of males answering, the aggregate for all, and the average for each male answering. Chapter IV is made up of two sets of tables, the first showing for each schedule question, by special cities and towns in Massachusetts, the number of schedules received, the number and per cent. of each sex answering, the aggregate for all, and the average for each person answering; the second showing for each of the special cities and towns, by schedule questions, the number and per cent. answering, and the average for each person. Chapter V contains two presentations of the statistics concerning the wagonlaborers in twenty important occupations, including operatives in cotton and woollen mills and boot and shoe factories, farm laborers, etc. Both show the number of each sex pursuing each occupation and the days employed, the yearly wages earned, and the cost of living; the first for each county, by occupations, and the second for each occupation, by counties. Then follows an exhibit of the average days employed, yearly wages, and cost of living in the occupations enumerated.

Salary receivers (56 pages).—In this part of the report the returns received from 9,554 salaryreceivers are presented, the arrangement being similar in every respect to that of the statistics concerning wagereceivers, in chapters I and II of the preceding part.

Appendix (105 pages).—This contains a summary of the laws relating to or affecting labor which have been passed by the Massachusetts legislature since 1833, including copies of laws regulating the hours of labor of children; prohibiting the employment of children under 10 years of age in factories; regulating the hours of labor of women and children; the payment of wages of employes under special contracts; relating to the employment of children; and prohibiting the intimidation of employes. Also a brief account of foreign legislation; a complete history with opinions of the public and press regarding the Massachusetts bureau of labor statistics from its establishment, with a digest of its seven annual reports; and an account of the census and industrial statistics of 1875, with a copy of the law providing for taking the same.

EIGHTH ANNUAL REPORT, 1877.—[303 PAGES.]

Introduction (4 pages).

Industrial arbitration and conciliation (49 pages).—Under this head are given, first, a report made to the bureau by the editor of *The Labor News*, of London, on the rise, growth, and present status of arbitration in England, including extracts from various influential newspapers showing their position concerning conciliation in agriculture; and, second, a detailed account of the principal attempts at arbitration in Massachusetts, being for the most part a history of the order of Saint Crispin.

Cooperation in Massachusetts (87 pages).—This is a history of cooperation in the state, made up of a compilation of the records of different societies, together with extracts from the testimony of their officers and members. Comprehensive accounts, with textual and tabulated statistics, are given concerning the New England Protective Union, the Boston Tailors' Association Union, the Boston Cooperative Building Company, the Sovereigns of Industry, the Somerset Cooperative Foundry, and other

cooperative enterprises; also a statement showing the location of each association in the state, the year of its charter, its purpose, capital, assets, etc. The last 16 pages of the chapter are devoted to a statement of the conclusions reached after a general review of the whole subject.

Motive power in Massachusetts or the labor of the sun (16 pages).—This is a paper, prepared by T. W. Clark, on the motive power of the state. It includes a table exhibiting the steam and water power of the state in the different industries, with the number of persons actually employed in those industries, May 1, 1875, which is used as a basis for showing the increase of man's productive capacity. The whole chapter demonstrates the fact that the people of the present time are living under vastly improved conditions.

The afflicted classes (17 pages).—This part of the report embraces statistics which were collected by the census enumerators in 1875, concerning the blind, deaf, dumb, idiotic, and insane residents of Massachusetts. Numerous short tables are given which, together with the text, show the number of each class in each county, with the proportion to the total population, and the causes of the disability.

Pauperism and crime (45 pages).—This is a textual and statistical consideration of pauperism and crime in Massachusetts, based on data collected for the census of 1875. The statistics relating to pauperism are presented in tables with descriptive text, showing the number and sex of paupers, by counties, their birth places, the causes of pauperism, the previous occupations of the paupers, their conjugal condition, ages, and illiteracy. The same statistics are given concerning convicts, and the remaining pages of the chapter are devoted to a consideration of the facts disclosed by a comparison of the preceding statistics, a statement of the cost of pauperism and crime, and some general conclusions advanced by the chief.

Massachusetts manufactories (62 pages).—This is a report based on the census of 1875, concerning the persons employed in each story of the manufactories in nineteen cities and twenty-one towns of Massachusetts, and their means of escape in case of fire. The statistics are presented in tables, followed by descriptive notes, showing, for each city and town, the number of establishments, classified according to the number of hands employed, the number of employes in each story, and the means of escape in case of fire. Five recapitulations of the facts presented in the preceding tables are given, followed by an exhibit of the height of buildings used as manufactories, and the number having attics and basements.

NINTH ANNUAL REPORT, 1878.—[266 PAGES.]

Comparative condition of manufactures and labor, 1875 and 1877 (9 pages).—The results of an investigation into the present condition of manufactures and labor in Massachusetts, as compared with that of 1875, are here presented. Two tables are given, the first showing for each industry, and the second for each establishment represented in the different industries, the percentage of increase or decrease in the persons employed, and in gold value of the product, the increase or decrease of working time, in days, and the percentage of decrease in wages.

The education and labor of the young (24 pages).—Under this head is given a paper on the half-time system, prepared by Dr. D. F. Lincoln from personal investigation, and containing a history of the origin and growth of half-time schools, statements concerning the limits of mental application, and the advantages accruing from combining study with work, together with abstracts from correspondence relating to half-time schools in Massachusetts, in other states, and in Europe.

The growth of Massachusetts manufactories (49 pages).—This is a textual and statistical account of the growth of manufactures in the state. The tables give the number of manufactories established before 1700, from 1700 to 1799, from 1800 to 1825, and each year from 1826 to 1875; also the dates, as above, of establishment, by industries. Then follow accounts of the growth of manufactures in the several towns of each county, showing the names of the industries and the dates of their establishment.

The relative importance of private establishments and corporations in manufacturing industries (13 pages).—This chapter contains statistics relating to the 10,395 private establishments, and the 520 corporations engaged in producing manufactured goods in Massachusetts in 1875. Two tables are presented, giving the following information: Table I shows for the cities and towns in each county the number of private establishments and of corporations in each, the number of partners or stockholders, and the value of the goods made. Table II shows the number of private establishments and of corporations engaged in each industry, with the number of partners or stockholders and employes, the amount of capital invested, the value of the stock used, the total wages paid, and the value of the goods made.

Conjugal condition, nativities, and ages of married women and mothers (60 pages).—This chapter consists of statistics which were for the most part omitted, inadvertently, from the report of the census of 1875. The tables and recapitulations presented contain the following information for each town in the several counties of the state: Table I shows the conjugal condition of native born and of foreign born mothers; Table II shows the number and percentage of native and of foreign born married women with children and without children; and Table III shows the number of married women with children and without children, classified according to ages.

Nativities, ages, and illiteracy of various wageworkers (104 pages).—The object of this article is to show the presence and influence of the foreign born in the productive industries of the state. The chapter consists almost entirely of statistical tables. The first set of tables shows for each county the ages (by periods) and illiteracy of farmers, by their nativities; the second set presents the same facts concerning farm laborers; next are given state aggregates for skilled workmen in each of forty-three principal manufactures and mechanical industries, and a summary for the unskilled laborers in the state, containing information similar to that in the two preceding sets of tables; then follow statements covering 43 pages concerning the employes in various industries in representative cities and towns, designed to show the composition as regards nationalities of these places. The remaining pages contain tables showing, by industries, the number of persons employed; the percentage of illiterates, native born and foreign born; the number of illiterates under 20 years of age, by age periods; and, finally, a statement of the percentage of productive and unproductive population in various European countries, in the United States, and in Massachusetts, with summaries of the dependent and productive classes in the last named.

TENTH ANNUAL REPORT, 1879.—[198 PAGES.]

Introduction (12 pages).—This is a letter of transmittal containing references to the inability of workmen to avail themselves of the provisions of the insolvency laws, and to the truck system, giving a copy of the Ohio law; an account of labor legislation in Massachusetts since 1876; extracts from foreign statistical reports giving opinions concerning American labor; and a description by Oren W. Weaver of the system of school savings banks existing in France, Belgium, and Italy.

The unemployed in Massachusetts (13 pages).—This is a statement of the results of investigations made in June and November, 1878, to ascertain the number of people unemployed in the state. The results obtained, which are presented in tabulated form showing the number of skilled and of unskilled workmen unemployed in each county, and the number of births, deaths, and natural increase in the state from 1875 to 1877, disclose the fact that the number of unemployed had been greatly overestimated.

Convict labor (43 pages).—This is a report of an investigation as to the kind and amount of work performed at the penal institutions of Massachusetts, made in response to a resolve of the legislature of 1878 authorizing the same; followed by a consideration of the facts presented and of remedies suggested for alleged existing evils; and statements of the conclusions which, as a result of the evidence obtained,

seem logical to the writer, and of the recommendations which it seems just to make to the legislature. The tables contained in the report give a statement of the total number of convicts, and of the number under contracts or employed in mechanical industries, in each state of the United States in 1878; number of inmates in each penal institution in Massachusetts, the number at work, the number engaged on contract work, the contract price, and the earnings and the expenses of the institution for the year ending November 1, 1878; and a classification, by industries, of the employed prison population of Massachusetts, with the location and character of work of the same population.

Wages and prices (37 pages).—This part of the report consists of a comparison of wages and prices in Massachusetts for the years 1860, 1872, and 1878. The statistics for 1860 and 1878 were specially collected for this report, and those for 1872 were taken from the report of the bureau made in 1874. The results of this investigation are presented in numerous tables giving the average weekly wages in each occupation in forty-seven industries, including agriculture, textile industries, boot and shoe industry, etc., for each of the three years; the percentage of increase or decrease in wages in 1878 as compared with 1860, by cities and towns and by occupations; the average retail prices in each of the three years, of fifty-six items of expense, food, clothing, etc.; and the purchase power of money at the same time for the same items. The text, besides explaining the tables, contains a statement, for each of thirty-four representative cities and towns, of the percentage of advance on all the items of expense and the percentage of increase or decrease in wages; also some conclusions reached concerning wages and prices by a consideration of the purchase of commodities by workmen, and a review of all the matter here presented.

Testimony of workingmen (43 pages).—This is a textual account of replies received from workmen throughout the state to inquiries made concerning their occupations, hours of labor, health, general condition, manner in which wages are paid, children, and future prospects. Of the 230 workingmen making returns, 160 expressed their opinions at length on some phase of the labor question, and these remarks are also presented here, classified under topical heads.

The hours of labor (24 pages).—This chapter consists, first, of a table exhibiting the number of persons employed in each industry in Massachusetts for which the actual working time was secured by the bureau; the average number of days actually worked during the year ending May 1, 1875; the average number of hours worked per day, and the average number of hours it would have been necessary to work per day if the labor had been distributed over 308 working days; and, second, the statement of the opinions of leading manufacturers concerning a reduction in the hours of labor.

Statistics of drunkenness and liquor selling (16 pages).—The statistics of drunkenness and liquor selling under prohibitory legislation in 1874, and under license legislation in 1877, which were derived from an investigation undertaken at the request of the governor in 1878, are here presented. Circulars were sent to various officials throughout the state, and the returns were as follows: From town clerks, for each town in the several counties, the number of arrests for drunkenness during 1874 and during 1877; the number of places where liquor was illegally sold in 1874, and the number of liquor licenses granted in 1877. From city clerks, the number of liquor licenses granted in 1877. From chiefs of police, the number of arrests for drunkenness during 1874 and 1877, and the number of places where liquor was illegally sold in 1874. And from clerks of courts and trial justices, the number of judgments on complaints for illegal sales of liquor, and the convictions for drunkenness during 1874 and 1877. Recapitulations are also given for the first and last tables.

ELEVENTH ANNUAL REPORT, 1880.—[301 PAGES.]

Introduction (3 pages).

Strikes in Massachusetts (71 pages).—This is a history of all the actual strikes which occurred in Massachusetts from 1832 to 1879. Much space is devoted to Fall River, and a comparison of its record with that of Lowell and that of Lawrence is given, including tables which show, for each place, the nativity of the population in 1865, 1870, and 1875, and the number of cotton spindles in 1865 and in 1875. A summary of the 159 strikes recorded shows the occupation and nativity of strikers, and the location, causes, and results of the strikes. The remaining pages, 5 in number, contain a statement of the conclusions drawn from a consideration of the facts presented in this chapter.

Convict labor (49 pages).—This part of the report contains statistics concerning the penal institutions in the United States, where convicts are in any way employed in labor at all competing with outside labor. It is supplementary to that chapter in the last report of the bureau relating to convict labor in Massachusetts, a synopsis of the conclusions and recommendations presented at that time being given here. The statistics were officially supplied to the bureau and are as follows: The number of convicts, by sexes, in prison, and the number at work under each method of employment in each penal institution in the United States, arranged by states and territories; the total number at work, by industries; the number of convicts at work in each industry, by states, and the number of free laborers in the same industries; facts similar to those in the last table concerning Massachusetts alone; a classification of the penal institutions; and the number of convicts at work under each method of employment in the several states and territories. Recapitulations for each table, and lists of the occupations in which convicts are employed at skilled and at unskilled labor are also given. The concluding text contains an analysis of the statistics presented and a statement of the suggestions, furnished by Edward Atkinson, as to the methods of applying technical education to the solution of the convict labor question.

Statistics of crime (73 pages).—This is a comprehensive exhibition of the statistics relating to crime in Massachusetts from 1860 to 1879. The tables, 32 in number, varying in length from a half page to two pages, were prepared from official returns made to the secretary of the commonwealth, and contain the following information: Tables I to XX show, by classes of offences, the total number of sentences passed in each county in the superior and police courts and by trial justices during each year from 1860 to 1879; and Tables XXI and XXII contain aggregates of the preceding, by years, the first with offences in detail, and the second with counties in detail. The three tables following contain a classification of offences, with increase or decrease in percentages, for each year as compared with 1860; the number of sentences for drunkenness, liquor offences, and all other offences aggregated, with percentages of increase or decrease for each year as compared with 1860; and the same information with percentages of increase or decrease for each year as compared with the year next preceding. Diagrams further elucidating the information contained in the tables are also given, together with one showing the sentences for high crimes each year from 1860 to 1879. Other tables present a classification of offences, and show the number of persons in confinement in Massachusetts each year from 1860 to 1878, with the number in each penal institution of the state; and, finally, the number of convicts in the state prisons of the United States, by states, showing the percentage born in the state in which they are confined and the percentage born out of the state.

Divorces in Massachusetts (39 pages).—Statistics relating to divorces in Massachusetts from 1860 to 1878 are here presented, with textual explanations of the tables and notes on divorce legislation in the state. The tables, 17 in number, with the exception of one of 6 pages, are 1 page in length. They show the causes for divorce as

alleged in the libels filed during the period covered by the investigation with the number filed each year; the number of divorces actually granted, by years and statute causes, in a separate table for each county, with a recapitulation for the state; and, in conclusion, the number of marriages and of divorces, by years, with the ratio of the latter to the former.

Social life of workingmen (58 pages).—This is a report of an investigation concerning the relative social opportunities afforded workingmen in the country and the city. The statistics were compiled from returns made by chairmen of the school boards of 234 towns and 19 cities in Massachusetts in response to circulars sent out by the bureau, and from personal visits to the larger cities. The report, which is mainly textual, compares the social life and opportunities in towns and cities, gives suggestions and remarks from various correspondents, presents some methods for the improvement of social life, and concludes with accounts of workingmen's clubs in Boston, Philadelphia, and New York, and some remarks on Sunday recreation for the people.

TWELFTH ANNUAL REPORT, 1881.—[545 PAGES.]

Letter of transmittal and introduction (2 pages).

Industrial arbitration and conciliation (75 pages).—A special report by Joseph D. Weeks, all text, except where illustrated by nine short tables. It is an account of various attempts at arbitration in disputes between employers and employes in this country, relating chiefly to Pennsylvania, Ohio, and New York. Conciliation in the Pittsburg iron trade is first considered, and copies of memoranda of agreement, generally accompanied by scales of prices agreed upon between employers and employes, are given as follows: February 13, 1865, between pig iron boilers and manufacturers; July 23, 1867, between the same parties. Copies of memoranda of agreement, then (1880) in force, are given as follows: April 2, 1872, between guide rollers and manufacturers; October 17, 1879, between bar and nail mill rollers and heaters and manufacturers; February 23, 1880, between Amalgamated Association of Iron and Steel Workers and manufacturers for knobbling; March 1, 1880, between the same parties for rolling in sheet and jobbing mills; also for boilers (the date to be filled in by each company); September 7, 1880, between the same parties for muck rolling. Arbitration in Pennsylvania anthracite regions is next considered. In tabular form are given the prices of coal at Port Carbon for certain months of each year, from 1869 to 1872, and wages paid to miners at the same dates. Copies of agreements and tables showing their operation are given as follows: July 29, 1870, between Workingmen's Benevolent Association and anthracite board of trade; May 11, 1871, between the anthracite board of trade and the Miners' and Laborers' Benevolent Association; January 6, 1872, between the same parties. Arbitration in the coal mines of the Pittsburg district is next considered, and rules of the board of conciliation and arbitration for the coal mines of western Pennsylvania, of date October 24, 1879, are given. The attempt at arbitration in the Shenango valley of Pennsylvania is considered; also arbitration in Ohio, particularly in the Tuscarawas valley. There is an account of the Straiton and Storm board of arbitration, New York city, with the rules of the board. The report of Mr. Weeks is summed up by the commissioner in two pages.

Statistics of drunkenness and liquor selling, 1870 to 1879 (242 pages).—This consists almost entirely of statistical tables, compiled from data furnished by town and court officials, only 9 pages out of a total of 242 being text. The tables, 9 in number, are very long, and recapitulations and consolidations are provided. They give the number of arrests for drunkenness, by years, for each town, city, and county in the state, with recapitulation for the state, and convictions, by years, counties, and court convicted in, with state recapitulation. The places where liquor was sold illegally are given by years, towns, cities, and counties, with state recapitulation. The number of complaints in court for illegal selling, carrying or keeping, and for liquor nuisance,

and disposition of these are given by counties, courts, and years, with state recapitulations. An abstract of state laws relating to liquor licenses is given. The number of licenses for each of the six classes or kinds issued in each town or city for the years 1875 to 1879 is given, with state recapitulation of classes, by counties. A list of towns indicating whether they had or had not granted licenses is given, by years; also a table showing population, by towns, cities, and wards (census of 1880), and proportion of licensed places to population. Supplementary tables are added showing, by counties, the population and the proportion of population to licenses and to convictions for drunkenness.

Uniform hours of labor (154 pages).—A textual and statistical inquiry concerning the hours of labor in the states of Maine, New Hampshire, Massachusetts, Rhode Island, Connecticut, and New York, and the probable results of the adoption of a uniform system of ten hours labor, particularly in the textile industries. There is a total of 154 pages, 22 in text and 132 in tables. Inquiries were made of both employers and employes, and part of the tables is based on returns from one and part on returns from the other. The tables proper are 5 in number, varying in length from 12 to 26 pages. They give, by states and establishments, the manufacturers' returns of kind of goods manufactured, cotton and woollen textiles, etc., kind of raw material used, where produced and where purchased, its cost where purchased and at mill, where products are sold, and cost of transportation to such market, where exists principal competition in manufacturing and selling, and whether sales are effected by importations, the proportion of men, women, male children, and female children to each 100 employes, the average wages of each of these classes and (separately) of spinners and weavers, hours of labor, quantity of product of looms, number of looms tended by each weaver, quantity of product of spinners and kind of power used. The employes' returns give, by families, the occupation of the head of the family, whether day or piece work is done, hours of labor, number of adults and of children in the family, time unemployed during the year, earnings of head of family and of others in the family, and cost of living. In addition are given tabulated answers of manufacturers and workmen to various inquiries intended to bring out the probable effect of a uniform ten-hour law upon the interests of employer and employe in the several states mentioned. The summing up of the whole matter is shown in 20 pages of text.

Influence of intemperance upon crime (54 pages).—A textual and statistical inquiry concerning the direct and indirect influence of intemperance in inciting crime, based on data obtained from the court records of the county of Suffolk for the year ending September 1, 1880; length 54 pages, 9 of text and 45 of tables. Briefly summarized results of the preceding year's investigation into crime are given. The tables are nine in number, and from 1 to 12 pages in length. The facts are ascertained and presented for males and females, under each kind of offence, as to whether the criminal was under the influence of liquor when the crime was committed, or under its influence when the intent to commit the crime was formed, or as to whether the criminal's intemperate habits led to a condition which induced him to commit the crime, or as to whether the intemperate habits of others led him to a condition which operated to induce the commission of the crime. The number of criminals, with respect to sex and specific offence, reported as total abstainers, moderate drinkers, and excessive drinkers is given. The native and foreign born, by sex, are shown for each offence as sober or in liquor at the time of the commission of the crime. Also, with respect to each offence, the previous occupations of the criminals are given, and, for each occupation, the number of total abstainers, moderate drinkers, and excessive drinkers. With reference to country of birth, age and sex are shown for each specific offence. An exhibit is also made of native and foreign born, by sex, for each offence, as to the nature of the sentence, whether imprisonment, fine, put on probation, etc. Finally, the duration of imprisonment and amount of fine are shown, so classified as to exhibit, by sex, the number for each particular period of time or particular amount of fine.

THIRTEENTH ANNUAL REPORT, 1882.—[473 PAGES.]

The Canadian French in New England (92 pages).—This is a report of a hearing held before the bureau for the purpose of allowing the French Canadians in New England an opportunity to make public their objections to statements concerning them which appeared in the twelfth annual report of the bureau. These statements were to the effect that the presence of the Canadian French is a serious obstacle in the way of the adoption of the ten-hour system of labor; and that these people are an undesirable element in the laboring population. The statistical testimony presented is shown in a table relating to thirty-five cities and villages where Canadian French are to be found in great numbers. This table shows the proportion of Canadians to the total population, the number of these people owning real estate, the number in school, the number naturalized, the number holding public offices, and the number of merchants, professional men, and tradesmen among them.

Citizenship (99 pages).—The results are here shown of an investigation concerning the composition of the voting population of Massachusetts as to nationality, and the proportion of the voting population exercising the right of suffrage. The chapter is mainly statistical, the statistics being presented in nine tables, which vary in length from a few lines to one covering 72 pages. Table I shows the nationalities of voters and of aliens in each city or town in the state, also the percentage of voters and of aliens to the total population. Tables II and III show, for the years 1875 and 1881, the number of polls, of legal voters (estimated for 1881), and the number of votes cast in each city and town, with recapitulations giving the same by counties. The other tables show, by nationalities, the percentage of male population of voting age to the whole population of each nationality, the ratio of population to each male of voting age, and to each legal voter; also, by counties and again by cities, the percentage of foreign born voters of the foreign born population; by cities, the percentage of foreign voters to total voters, of foreign population to total population in 1875 and in 1880; by counties, the population, number of polls, the estimated number of voters, and the total vote cast at the presidential election of 1880; the estimated number of voters and the total vote cast on a constitutional amendment in 1881, and, in conclusion, the population, the actual vote cast, the proportional vote on the basis of one vote to every 5.36 of population, and the excess or deficiency relating to this proportion, for each state, in 1880.

Fall River, Lowell, and Lawrence (223 pages).—In answer to the question: Why is it that the working people of Fall River are in a constant turmoil, when at Lowell and Lawrence they are quiet? an investigation was made by the bureau, the results of which are presented in this chapter. The information was gathered by personal visits and inspection, and from the testimony of leading citizens in the three cities; the number of individuals who contributed in some way to the report being about seven hundred. All the information procured is presented and arranged in six divisions, as follows: (1) the operatives; (2) the mills; (3) the cities; (4) condition of operatives in their homes and employment; (5) relations of employers and employes; (6) opinions of leading citizens. These subjects are discussed at length, and the text is further elucidated by a large number of short tables. Under the first heading are given the occupations of operatives, class of help, women and children in the mills, nationality and illiteracy of operatives, conduct out of the mill, trustees and assignments, savings, and the condition and appearance of the operative population in the three cities. Then follows a general description of the mills, including an account of their condition as to fire escapes, ventilation, and machinery, and statements of their regulations, finances, valuation of machinery, buildings, and land, production, profits, and accumulations. In the third division the municipal valuations and appropriations, financial condition, drunkenness, police statistics, inspection of buildings, construction of sewers, boards of health, registration statistics, education, libraries, clubs, and associations of the three cities are the

subjects discussed. Sixty-seven pages are devoted to information concerning the condition of operatives in their homes and employments. Descriptions of tenements and boardinghouses in each of the three cities, and condensed abstracts of the regulations respecting them are first given, followed by statements regarding the personal property and real estate owned by operatives, and brief discussions of cooperation, food and rents, working time, ten-hour law, speed, "cut sheets," standard of production, overwork, hard work, fines, poor light, poor cotton, mule vs. frame spinning, weekly payments, time bills, notice, wages, and relief societies. That part of the report treating of the relations of employers and employés is entirely textual. It contains extracts from the complaints of operatives respecting various matters, including the "black list," the "drive" or "grind," and the "cheating" of corporations. The manners of superintendents and overseers are discussed, and a few pages devoted to a consideration of trades unions, strikes, delegations, and conferences. The remainder of the chapter presents the replies received from each of the three cities in answer to inquiries made respecting, first, the needs (morally, socially, or industrially) of the operatives in the textile industry; second, plans for the bettering of the condition of the textile factory operatives; and, third, the complaints of such operatives.

Wages, prices, and profits (43 pages).—This is a textual and statistical account of an investigation concerning wages, prices, and profits in Massachusetts, showing the condition of laborers at the present time in comparison with that of former years. Three of the tables presented exhibit, first, the average weekly wages for the years 1860, 1872, 1878, and 1881, according to occupation, indicating the increase or decrease between last two dates, also a table giving the wages of English factory operatives; second, the average retail prices of staple commodities for the same four years, with the percentage of increase or decrease between last two dates; and, third, the purchasing power of one dollar for the same years. Wholesale prices of groceries and meats for the years 1878 and 1881 at the Boston market are also given. In the consideration of profits, short tables are used showing the cost price to consumers, retailers, jobbers, and manufacturers, in 1881, of seventy articles or grades of articles; and a recapitulation shows the percentage of net profit going to the retailer, jobber, or wholesale dealer and to the manufacturer.

FOURTEENTH ANNUAL REPORT, 1883.—[412 PAGES.]

Employers' liability for personal injuries to their employés (177 pages).—This part of the report was prepared and written by Charles G. Fall. It is the result of a careful investigation of the subject of the liability of employers to employés for injuries received while in the discharge of their duty, and points out a number of changes which seem to be needed in the existing laws relative to such liability. Abstracts of the Scotch and Irish laws respecting this subject, and those of France, Italy, and Prussia are cited, as well as the laws of different states and territories in our own country, and finally those of England, together with accounts of considerations of the subject by committees of parliament. Seven reasons in support of the law as it exists are next discussed, followed by brief considerations of various matters pertaining to this subject, among them being the manner in which large employers and corporations escape liability; railroad accidents in the United States and in Great Britain; and the justice or injustice of allowing employés to make a contract relieving their employers from liability. A short history of the English act, of its operation, and of decisions under it, is given; after which follows a discussion of the subject in this country, a summary of the objections to and the reasons in favor of a change in the law, and a statement of the difficulties of drawing a bill. In conclusion, two bills are presented for the action of the legislature, as the result of the full consideration of the subject. Two appendixes are added, the first being a transcript

from the English employers' liability act, and the second containing extracts from a circular issued by the Baltimore and Ohio Railroad Company, promulgating the organization of an employes' relief association.

Time and wages (61 pages).—This is a presentation of statistics concerning hours of labor and wages, compiled from the returns for the tenth census of the United States relating to Massachusetts. The tables show the average number of employes; the average day's wages for a skilled mechanic and for an ordinary laborer; the hours of labor from May to November and from November to May, and the yearly average; the months employed; the time employed, in months, on full time, three-quarters time, two-thirds time, half time, and idle, in each of 2,440 establishments in the following industries: Boots and shoes, boxes, brick, building, carriages and wagons, clothing, cotton goods, food preparations, furniture, leather, machines and machinery, metals and metallic goods, musical instruments, paper, printing and publishing, rubber and elastic goods, stone, tobacco, wooden goods, and woollen and worsted goods; also, for each industry, the average day's wage of skilled mechanics and of ordinary laborers; the average daily hours of labor for the year; the average yearly working time; and finally the actual average yearly working time, day's earnings, and yearly earnings.

Profits and earnings (133 pages).—In this part of the report, relating to yearly earnings and the profits of manufacturers, the same establishments are considered as in the preceding part. The tables show, for each establishment, also for each city and town arranged by counties, and for each of eighty industries, the average number of employes; the capital invested; the wages paid during the year; the stock used; the value of the product; the estimated interest and expenses; the net profit or loss; the percentage of the stock used, of the wages paid, of the interest and expenses, and of the net profit or loss of the value of the product; the average yearly product and net profit per employe and the average yearly earnings of each employe; also for each of the eighty industries mentioned above, and for each of the thirty-two cities or towns, in every one of which the value of manufactured goods exceeds \$3,000,000 yearly, the average yearly earnings of each employe, and the percentages of men, of women, and of children and youth, and last, the profits and earnings during 1875 and 1880 in the state, the city of Boston, and in thirty selected cities and towns.

Early factory labor in New England (25 pages).—This is a historical account of the factory girls of Lowell, Massachusetts, and their life from 1832 to 1848, prepared by Mrs. Harriet H. Robinson, who was herself a factory employe at that time. Descriptions are given of their life at the mills and in their boardinghouses, together with accounts of their social and literary opportunities, and of the after fate of some of them; and, in conclusion, a comparison is made with the present condition of factory labor.

FIFTEENTH ANNUAL REPORT, 1884.—[485 PAGES.]

The working-girls of Boston (133 pages).—This is a textual and statistical account of the general condition of the working-girls of Boston, prepared from data gathered by special agents of the bureau by personal visits. The introductory pages contain tables showing the occupations and nativities of all persons engaged in all occupations in Boston in 1880; the same concerning females alone, and the occupations in detail, classified under personal service, trade, and manufacture, of the 1,032 working-girls included in this investigation. The information secured is presented in this report under six general topics: (1) Social condition; (2) occupations, places in which employed; (3) hours of labor, time lost, etc.; (4) physical and sanitary condition; (5) economic condition; (6) moral condition. The chapter on the social condition is mainly statistical, and shows the residence, nativity, nativity of

parents, conjugal condition, number of parents living, present age and age at beginning work, time at work, and time in past and present occupations of the 1,032 working-girls. The tables in the second chapter exhibit the occupations and nativities, the years employed in each occupation, and the number of different occupations followed, the places in which the 1,032 girls have been at some time employed, the length of time in each place, the number of places in which employed, and the number that are forced to devote time to housework and sewing in addition to their daily labor. Chapter III, which is also statistical, shows the daily and Saturday working hours, the actual weekly working hours, the range of time allowed for dinner and for vacation, and the time lost during the past year. The tables relating to the physical and sanitary condition show the health according to occupations, the health, age, and conjugal condition, the comparative health, health at beginning work and in present occupation, and during whole time employed. Textual accounts are also given of the sanitary surroundings at home and in the workroom, and of the effect of work on health. The next chapter deals with the economic condition of the 1,032 working-girls, and contains tables which show the average weekly earnings during the whole time employed, whether at work in Boston or elsewhere, the present actual weekly earnings, how or in what calling additional earnings were made, the sources and amount of assistance received, the average weekly and yearly incomes, and the itemized expenses. The text contains accounts of the different "seasons" in various occupations, and of the home life of the working-girls, showing how their earnings are used and the number dependent upon their work. Then follows a consideration of the moral condition of the working-girls, and the investigation seems to have disclosed the fact that the charge of gross immorality made against this class is almost wholly unfounded. In conclusion, a summary of the results of the investigation is given, together with some suggestions looking to the general improvement of the condition of and establishing homes for the working-girls of Boston.

Comparative wages, 1883: Massachusetts and Great Britain (181 pages).—In the fall of 1883 the bureau began an investigation, through personal agents, in Massachusetts and Great Britain, to determine the difference in the rates of wages paid in industries common to both states. The comprehensive report of that investigation here presented relates to twenty-four industries, and is for the most part statistical, the text being confined to notes explanatory of the tables. Each industry has a table of its own composed of four sections: occupations, aggregation, recapitulation, and comparison. The first section gives the names of the occupations in each industry, for both countries, with the weekly wages paid, and the number of employes receiving the wages specified. The second section presents the totals and averages drawn from the preceding one, and brings the various occupations in the same industry into juxtaposition for direct comparison. The third division is also made up from the first and shows the number of men, women, young persons, and children for whom wages are given, the number paid by the day, piece, or both, and the number for whom actual wages and for whom average wages are given. The last section brings the highest, lowest, average and general average weekly wages of both countries into a final comparison. The tables are supplemented by a general review, which is followed by a grand recapitulation, a grand comparison of average hours of labor, wages, etc., and a grand aggregation; and the result of the entire investigation is stated as being that the general average weekly wage of the employes in twenty-four industries in Massachusetts is 62+ per cent. higher than the general average weekly wage of the employes in the same industries in Great Britain.

Comparative wages, 1860-1883: Massachusetts and Great Britain (117 pages).—This part of the report presents for direct comparison wage statistics for the years 1860, 1872, 1874, 1875, 1878, 1880, 1881, and 1883 for Massachusetts, and for the years 1872, 1877, 1880, and 1883 for Great Britain, drawn from census or official reports and from personal investigations by agents of the bureau, and various other sources. Ninety

industries are represented in the tables, and the tables themselves are composed of three parts. The first shows the countries and year compared, and the number of employes for whom wages are given, with classifications of this whole number as to sex and age, as to manner of working, and as to whether actual or average wages are given; the second part shows the country and year, and the highest, lowest, and average weekly wages for men, women, young persons, and children; and the last part shows the country and year, the general average weekly wages, and contains under the heading Result the final comparison. After a general review of the tables, a grand recapitulation showing number and percentage of children and adults employed, etc., and a grand comparison of all statistics contained in them, are given, followed by tables showing the increase and decrease of wages in Lancashire, England, and a statement of the grand result of the investigation, which is even more favorable to Massachusetts than that for the year 1883 alone, given in Part II of this report.

Comparative prices and cost of living, 1860-1883: Massachusetts and Great Britain (35 pages).—This is a comparison of prices and of the cost of living in Massachusetts for the years 1860, 1872, 1878, 1881, and 1883, and in Great Britain for the years 1872 and 1883. The statistics relating to prices are presented in the following order: Prices of groceries, provisions and fuel, and the purchase power of money in Massachusetts in 1860, 1872, 1878, 1881, and 1883; prices for the same articles and the purchase power of money in both Massachusetts and Great Britain for the years 1872 and 1883; prices in both countries in 1883 for the three classes of commodities mentioned above, also for dry goods, boots and shoes, clothing, rents, board and lodging, and canned goods; and restaurant prices in Massachusetts. Analyses of each table are given and the remainder of the chapter is devoted to a comparison of the cost of living in the two states in 1883. The budgets of nineteen workmen in Massachusetts and of sixteen in Great Britain are presented in tabulated form, showing, for each, the size of the family, the number of persons at work, the earnings and expenses, and the expense details; and averages and the percentage of expenditure for both countries compared with Dr. Engel's economic law; followed by a grand comparison, and a statement of the facts brought to light by the investigation.

SIXTEENTH ANNUAL REPORT, 1885.—[552 PAGES.]

Pullman (26 pages).—This is a joint textual report made by the chiefs and commissioners of the state bureaus of labor statistics concerning an investigation of the economic experiment conducted by the Pullman Palace Car Company, at Pullman, Illinois. A historical sketch of the town is presented, showing the manner of its construction, and giving accounts of its industries, its population and their earnings and living expenses, educational facilities and health, and the moral influence of the place. The last seven pages are devoted to a general consideration of the different features of this establishment which the investigation covered.

Sunday labor (73 pages).—This is a consideration of the causes of Sunday labor in Massachusetts, and the effects of such labor upon the parties directly involved. Historical accounts are given of Sunday labor in connection with both steam and horse railroads, showing the physical effects of such labor upon employes, and embracing tables of the Sunday trains on the principal steam railroads, and of the Sunday cars on all horse railroads in Massachusetts. Sunday newspapers, transportation service, postal service, hotels and restaurants, apothecary stores, etc., are discussed, and a table is given showing occupations in which Sunday labor is performed, followed by a statement of the results of the investigation.

Comparative wages and prices, 1860 to 1883: Massachusetts and Great Britain (55 pages).—This is a consideration of parts II, III, and IV, of the fifteenth annual report of this bureau, devoted to a consideration of the same subject, embracing a comparison

of wages, prices, hours of labor, cost of living, etc., percentage of expenditure, consideration of Dr. Engel's law, etc. This condensation preserves every fact stated in the full presentation, but the long tables of details, from which the tables of aggregates and the summaries were drawn, are omitted.

Historical review of wages and prices, 1752-1860 (311 pages).—This is a historical account of the industrial development of Massachusetts, based largely on information gained from old account books, bills, and miscellaneous papers. In reviewing the subject it is divided into three periods: the early industrial period, prior to the introduction of machinery and the factory system; the transition period; and the present industrial period. In discussing the first period, or that prior to 1815, accounts are given of the industries which had been established, of the hours of labor, of the household comforts, educational and social advantages and means of transportation possessed by workingmen, and of the manner in which laborers were paid. The history of the transition period includes accounts of the introduction of the factory system and of labor-saving machinery, of the early expansion of the cotton industry, of early tariff legislation, of the development of American manufactures, and the condition of the laborers, of the course of wages during that time, and the progress of immigration in the United States. The review of the present industrial period, beginning about 1830, shows the development of invention, the effect of machinery upon the condition of labor, and the status of the laborer before the law. The statistical tables which follow are based upon over 4,600 statements, representing over 9,000 original quotations of wages, and nearly 25,000 statements representing 120,000 original quotations of prices. Separate tables are given for each year, from 1752 to 1860, showing the wages paid in different occupations and the prices of various articles of food, commodities, etc. These are followed by other tables for each occupation and for each of the articles named in the preceding tables. The wages of cotton mill operatives for various years from 1828 to 1860 are also shown. Then come tables exhibiting the wages in the different occupations and the prices of the articles named in the first set of tables, by periods of years; and the summary of the statistics presented containing comparisons of wages and prices from 1830 to 1860, by periods. Only 52 pages of this chapter out of the 311 it contains are text.

Health statistics of female college graduates (62 pages).—This chapter consists of a report of an investigation conducted by the committee on health statistics of the Association of Collegiate Alumnae. The statistical tables here presented are based on information received in reply to the questions contained in a schedule sent to all graduates of colleges or universities of the United States open to women. These schedules consisted of seven divisions. The first related to the conditions of childhood; the second to individual health; and the third to family health; the fourth to college conditions; the fifth to conditions since graduation; the sixth to answers in case of the death of an alumna, and the seventh to remarks. Statistics concerning the 55 per cent. of the graduates who made returns are exhibited, and the remainder of the chapter is devoted to a review of the tables and a summary of the results of the investigation.

SEVENTEENTH ANNUAL REPORT, 1886.—[411 PAGES.]

Henry Kemble Oliver (47 pages).—This is a biography of Henry Kemble Oliver, who died August 12, 1885, incorporated in this report as a memorial of his services as the founder of the work of this bureau.

Cooperative distribution in Great Britain (104 pages).—This is a historical description of cooperative distribution in Great Britain, including accounts of its methods and present condition, prepared by the chief of this bureau in response to a resolve passed by the legislature in 1885. A statement of the sources from which the in-

formation here presented was gathered is first made, followed by definitions of co-operation as it was first advocated and as it is now understood; an account of the manner in which the Rochdale Pioneers and other distributive societies of England have grown up, their mode of operation, and what they have accomplished; and a statement of the provisions of the statutes upon which the legal basis of co-operation in the United Kingdom rests at present. Complete descriptions are given of the manner of organizing and of conducting both retail and wholesale cooperative stores; after which a number of tables are presented giving statistics of cooperative societies in Great Britain and in England and Wales from 1862 to 1883, in Scotland and in Ireland from 1872 to 1883; of societies with sales exceeding £200,000 yearly, from 1866 to 1883; and finally showing the progress of the English wholesale society from March, 1864, to June, 1885, and of the Scotch wholesale society from 1869 to 1883. The Co-operative Union, by which organization the cooperative societies are bound together, is then described, and a review of cooperative distribution in Great Britain follows, showing the advantages of organization, the reasons for success, the criticism to which the movement is open, and, lastly, the benefits to be derived from these organizations if they are properly managed. A condensed account of the position of productive cooperation in Great Britain, and of productive and distributive cooperation on the continent of Europe and in Australia, together with a history of the Arlington Cooperative Association at Lawrence, Massachusetts, is presented as an appendix. Tables are given containing statistics regarding the cooperative productive societies of Great Britain at the beginning of 1884, and the cooperative societies of Paris; a classification of the membership in people's banks and consumers' societies in Germany in 1882 and 1883; and showing the progress of the Arlington Cooperative Association.

Profit-sharing (81 pages).—This is a textual and statistical consideration of the different arrangements in vogue whereby labor participates in the profits of the business in which it is employed. Profit-sharing in Europe is first considered, the prominent systems which have been tried, particularly in France, being fully explained. In the discussion of profit-sharing in the United States the subject is presented in three divisions—first, profit-sharing without wages in Massachusetts fisheries, with a table containing statistics relating to each vessel in the Massachusetts fisheries in 1884; second, profit-sharing in addition to wages, usually referred to as "industrial partnership," in several states, containing accounts of various experiments in that direction, especially that of the Peace Dale Manufacturing Company; and, third, profit-sharing through stock-owning, in Massachusetts. This last division consists of a synopsis of the laws of Massachusetts respecting cooperative corporations; accounts of cooperative manufacturing enterprises in Massachusetts from 1870 to 1875, with statements of their assets and debts; statistical tables, showing the progress of cooperative manufacturing enterprises in the state from 1875 to 1884, the condition of each company at the time of the holding of the annual meeting in each of the ten years being indicated; and also a comprehensive history of each of ten companies in operation in Massachusetts during 1885, the information presented having been gathered by means of personal visits to each company. A summary of the essential points contained in the statistical statements given for each company is also presented, for the purpose of comparison. The remaining six pages are devoted to a discussion of the conclusions reached from a careful consideration of all the matter presented in this chapter.

Food consumption; quantities, costs, and nutrients of food materials (90 pages).—In this chapter are presented the results of an investigation undertaken by the bureau for the purpose of supplying workmen with the information necessary to enable them to more intelligently regulate their expenditures for food, so that they may secure with a given expenditure the maximum amount of nutritive elements. The greater part of this report is based upon a number of schedules of dietaries, collected by the bureau, giving the quantities and costs of food, of people, mostly manual

laborers, with limited incomes, in Massachusetts and Canada, which were subjected to chemical analysis in order to estimate the quantities of nutritive material contained in them and to learn how they compare with regard to nutrients, cost, and fitness for their purpose with each other, as well as with other dietaries and with recognized standards. The chapter is made up of a number of tables accompanied by textual explanations. After a general introduction, which contains statements regarding the nutrients of food and their uses in nutrition, the digestibility of food materials as affecting their nutritive values, the amount of nutrients obtained for 25 cents in different food materials, and some statistics of boardinghouse consumption, the consideration of the dietaries collected by the bureau is begun. Statements are presented of the data upon which the present study of dietaries is based, of the composition of various food materials, and of standards for daily dietaries. The analyses of a number of dietaries collected are then given, followed by recapitulations showing the persons, employments, wages, etc., and quantities and costs of food, also the quantities of nutrients estimated per man per day. Statements are presented concerning the dietaries of students, and of brickmakers at Middletown, Connecticut; a comparison made of the dietaries examined with European dietaries and standards; and some suggestions offered for alteration and improvement in two of the dietaries. Then comes a short discussion concerning the food of the poor of Boston, followed by a concluding summary and statements of the most noticeable features of the dietaries examined, and of some questions suggested by them.

Art in industry (65 pages).—This chapter contains the results of an investigation as to the value of art in the industries of Massachusetts. Statistics relative to art as a profession are first presented. These are based on the returns made by seventy-one of the leading artists of the state, in response to a schedule sent out by the bureau, chiefly to ascertain whether art as a profession is profitable or not, and to determine the comparative advantages and disadvantages arising from a foreign or a native art education. The tables show the time and medium employed in art work; the branches pursued; the places in which the art education was received, and its time and cost; and finally the returns from thirty-seven schedules, giving statistics of income and expenses and some miscellaneous personal statistics. The opinions of artists as to the appreciation of art in this country and their suggestions relative to the awakening of a deeper interest in the fine arts in America are then given; the remainder of the chapter is devoted, first, to a consideration of the returns received from forty-one manufacturers regarding the application of art in industry; and, second, to accounts of the facilities existing in Massachusetts for an art education.

EIGHTEENTH ANNUAL REPORT, 1887.—[306 PAGES.]

The unemployed, from the state census of 1885 (294 pages).—This entire report is devoted to a presentation of the information collected by the enumerators of the Massachusetts census of 1885, relative to those persons in the state engaged in any remunerative occupation, who were unemployed during any part of the year ending May 1, 1885. The report is mainly tabular, the text containing little else than general analyses of the tables. The first set of tables gives, for each city and town, arranged by counties, the whole number of persons who were unemployed at their principal occupation during any part of the year, together with the number of persons respectively for each number of months unemployed, classified as regards sex and age periods. Then follows a summary of the preceding, for the state, from which three tables of percentages are drawn, showing the distribution of the unemployed; by sex, as regards age periods, and the number of months unemployed; by the number of months unemployed, as regards sex and age periods; and by age periods, as regards sex and the average number of months unemployed. For the purpose of comparing the final results as regards the number and percentages of the unemployed, these

are presented in three tables, first by sex; second, by the number of months unemployed; and third, by age periods. In a fourth table is given, by sex, for the state and for each age period, the average number of months unemployed. The next table shows, for each city and town in the state, arranged by counties, and for the state, the number and percentages of persons employed or unemployed, together with the average number of months unemployed for all persons and for the unemployed. The principal occupations of the unemployed are shown, by cities and towns, in a table which presents the number of unemployed persons of each sex and the average number of months unemployed for each occupation, together with the total number of persons employed in said occupation. A summary for the state is also given. Next in order the principal occupations of the unemployed are presented, classified by industries, followed by a table showing, by counties, cities, and towns, and for the state, the number of unemployed persons having "other occupation," so called, during any part of the time in which they were unemployed at their principal occupation; the average length of employment at such "other occupation;" and the net average number of months unemployed for the whole number of unemployed persons. Other tables show the principal occupations of unemployed persons having "other occupation;" the causes for short time in manufacturing establishments, by industries; and the place of birth of the unemployed, by occupations. The remaining thirty-four pages are devoted to an analysis and consideration of the information presented, including numerous short tables based on the preceding tables; and conclude with a statement of the essential result of the investigation.

NINETEENTH ANNUAL REPORT, 1888.—[239 PAGES.]

Strikes and lockouts, 1881-1886 (117 pages).—This is an account, mainly statistical, of all the strikes and lockouts which occurred in Massachusetts during the six years from 1881 to 1886, based upon data which formed a part of the Third Annual Report of the United States Bureau of Labor. The account is preceded, for purposes of comparison, by a synopsis of the history of strikes and lockouts in Massachusetts from 1825 to 1879, contained in this bureau's report for 1880; and by a statement of the number of strikes and lockouts which occurred in the state during 1880 and the occupations affected, taken from the report of the tenth census of the United States. The first table presented, concerning the years from 1881 to 1886, shows for each strike, by years and industries, its locality, cause, or object, whether ordered by a labor organization or not, the number of establishments concerned, its duration, result, employes' and employers' losses, the number of employes, their average daily wages and weekly working hours before and after the strike, the number of employes engaged in the strike, and the number of new employes after the strike. A summary of the strikes is given, by years and industries, followed by summaries of the causes or objects, first by years and second by industries. The next set of tables and summaries contains corresponding information concerning lockouts for the same period. A comprehensive analysis of the information presented in all the preceding tables, relative to both strikes and lockouts from 1881 to 1886, follows: this contains summaries of each of the divisions of the preceding tables, including those which show the results of strikes and lockouts upon establishments and employes; also numerous statements of percentages; tables showing the time required for employes to recover the loss in wages during strikes; and finally general summaries for strikes and for lockouts, by years and industries, and of the principal results for both, by cities and towns. A summary of the information concerning strikes and lockouts during the same period in Illinois, Massachusetts, New York, Ohio, and Pennsylvania is then presented, and the chapter is concluded with a consideration of the results of the investigation.

Citizens and aliens (107 pages).—This part of the report is based on data supplied by the Massachusetts census of 1885 relative to the polls, voters, and aliens in the state during the census year. The brief text accompanying the statistical tables presented contains explanations and analyses of those tables. Table I shows, for each city and town, arranged by counties, the number of ratable polls who are voters, not voters, and aliens, and the nativity of the legal voters. Table II, arranged in the same manner as table I, exhibits the following percentages: Aliens of polls, polls of population, voters of polls, and voters of population. Table III shows for each city and town, arranged by counties, by place of birth, the number of males not polls, of polls not voters, of legal voters, and of aliens; and the percentages of voters, and of polls not voters, of the total male population of voting age. Recapitulations for the state are given for each of the three preceding tables. Table IV shows the number of males not polls, of polls not voters, of legal voters, of aliens, and of total males of voting age in the state according to place of birth and by age periods. Table V is arranged in the same manner as tables I and II and presents the number of ratable polls, and of legal voters, in 1885; the number and percentage of votes cast for presidential electors in 1884, and for governor in 1885. An analysis of the preceding tables follows, accompanied by numerous short tables, which show the extent to which naturalization has prevailed among foreign born males of different nationalities in Massachusetts, by counties, and for the state, and also, by cities of the commonwealth, the percentage of foreign born naturalized voters of foreign-born males of voting age in 1885 and in 1875; by cities and large towns, the percentage of foreign born naturalized voters of total voters in 1885 and in 1875; by place of birth, the extent to which illiteracy acts as a bar to naturalization; and the occupations of the alien population, and of the illiterate aliens, being classified recapitulations of the details as they appear in the census of 1885. The chapter is closed with a brief consideration of the indifference manifested by those who have a right to vote, as shown in the percentages of votes cast in the years 1884 and 1885, presented in Table V.

TWENTIETH ANNUAL REPORT, 1889.—[674 PAGES.]

Relation of wages to the cost of production (83 pages).—This is a textual and statistical presentation of the results of an investigation to determine the relation which labor cost bears to the total cost of the product, as shown by the proportion which wages bear to the other elements of cost. The investigation covers returns, for the census year 1885, from 1,615 different manufacturing establishments, in which was produced 21.91 per cent. of the total product of manufacturing establishments of the state, and in which was paid 22.76 per cent. of the total amount paid in wages. The tables give, by industries, for each establishment and for a selected article of manufacture of each, the percentages of the total cost of production paid for wages, for raw material, and for expenses not specified. Analyses of these tables are presented, including tables which give, for each industry, the number in which the wage cost for the selected article presented in the tables was higher than the percentage of wage cost in the establishment as a whole, and the number of establishments in which the percentage of wage cost in the establishment was higher than that of the selected article; the aggregate product in each industry of all establishments investigated and of all establishments of the state in 1885, with percentages; the total cost of production, total wages cost, and percentage of wages cost of total cost of production, by industries; and finally a statement of the conclusions summarized from the tables.

Markets, transportation, imports, exports, and competition (145 pages).—This is a consideration of the returns made from an investigation concerning the principal markets for the sale of goods manufactured in the state; the cost of transportation, of purchases, and of manufactured goods; the effect of the importation of foreign made goods on

sales; the value of goods exported during the year; and the location of the greatest competition in the manufacture of goods and in their sale. The investigation embraces returns from 7,935 establishments, 33.87 per cent. of the whole number of establishments in operation in the census year 1885, and producing 68.83 per cent. of the total product of manufactures of the state. Preliminary tables give, by industries, the number and per cent. of establishments making returns, and the value of their product and its per cent. of the total product; and the comparative average value of product per establishment for all establishments of the state, and for those making returns.

The tables relating to markets give, by industries, for each market, the number of establishments, the value of their product, and its percentage of the total product, with a recapitulation for all industries, by markets, and a consolidation, by markets, classified as home, local, and foreign. The next set of tables shows, by industries, the respective amounts paid for freight on purchases, and on goods sold, and the percentage of each amount of the value of the whole product; also, by industries, the number of establishments reporting as to markets, the number as to transportation, and the value of the product of each; and for each industry, by counties, cities, and towns, the location of the principal market, and the cost per ton for transportation. The statistics relating to the influence exerted upon the sales of domestic manufacture by the importation of foreign made goods are presented, classified, by industries, under three heads: Sales not decreased. Sales decreased, and Effect not stated. Under each of these heads the number of establishments is given and also the value of the annual product. The analysis of these tables includes a special presentation of each of the twenty industries reporting a decrease in sales, followed by a brief consideration of the results. A classification of the replies is also given in detail. The tabular presentations of the information elicited concerning the total value of goods exported during the year show, by industries, with percentages, and later, by classified percentages, the number of establishments exporting goods to foreign countries, and the value of goods exported; also, by industries and with percentages, the comparative value of goods exported of the total product. In the consideration of the competition experienced by Massachusetts manufacturers in the manufacture and sale of goods tables are used which show the states, cities, towns, and counties in which Massachusetts manufacturers meet with competition, and the number of establishments reporting competition in each place; also the competition by industries, the competing localities being arranged in ten classes. The remaining pages present in condensed form the general results arrived at in the various divisions of this chapter.

Condition of employes (55 pages).—This is a textual and statistical consideration of the condition of employes in Massachusetts, relating chiefly to relief funds; libraries and reading rooms; profit-sharing; hired dwellings; rent and board, and dwellings owned by employes. The greater part of the information presented was derived from answers to a schedule of inquiries sent to manufacturers throughout the state. The tables used in this report show the number of cities and towns, arranged by counties, and the manufacturing and mechanical industries of the state having relief funds; the names and number of volumes in each of the free public libraries of Massachusetts in 1885, arranged by cities and towns, and counties, and also the annual circulation, by locations; the names of the principal donors of library and reading-room buildings, endowment funds, books, etc., by counties, cities, and towns, and again, by industries; the number of private firms and corporations having stockholders or profit-sharers in their employ, with the number of each, by counties and also by industries; the number of establishments reporting that their employes have opportunities for adding to their regular earnings by extra work, or by premium work; the number of proprietors of establishments reporting that they own houses in which their employes live, and the number of such tenants; the average amounts charged for the yearly rental of tenements of two, three, and four rooms; the average

amounts charged, by the week, for board in corporation boardinghouses; partial statistics concerning dwellings owned by employes; and the number of cooperative banks in the state, the number of shares in force, the number of members, and the total assets from 1884 to 1889. The text which accompanies each of the tables contains analyses and general explanations and comments.

The growth of manufactures (115 pages).—This is a statistical account, with brief textual comments, of the growth of the manufacturing industry of Massachusetts. An abstract of the contents of the historical review of wages and prices from 1752 to 1860, which appeared in the report of this bureau for 1885, is first given, followed by a table taken from the census of 1885, showing, by industries, the date of the establishment of existing firms and corporations, with recapitulations for all industries by years and by periods of years. The next division of the chapter is composed of tables which give, by industries, for each establishment, the date of the adoption of its present name; a description of the goods made and the kinds of work done, and the name of its founder. The growth of manufactures is then shown by comparative industrial statistics taken from the censuses of 1845, 1855, 1865, 1875, and 1885. The tables show, by industries, for each of these years, the number of establishments; the capital invested; the value of stock used; the number of persons employed; the wages paid; the motive power (horse power); and the value of the goods made; and each table is followed by an analysis. The remainder of the chapter is devoted to comparisons of the statistics, previously presented, regarding the census years 1875 and 1885, concluding with a summary of the general results.

Classified weekly wages (41 pages).—This part of the report deals with classified wages paid in the establishments in the different industries of Massachusetts, arranged in classes according to the different rates. The tables presented are based on material derived from the state census of 1885, and they cover the classified weekly wages paid to 248,200 employes, nearly two-thirds of the total number of employes engaged in manufacturing and mechanical industries in the state. A preliminary table shows the percentage of employes in each industry, for whom wages are reported, of the total number of persons employed; after which are tables which show, for each industry and for the state, by classified weekly wages, the number of males and of females, each receiving specified wages, and the percentage of each such number of the total number for whom wages are reported. The thirteen remaining pages are devoted to an analysis of these statistics, including a table which presents the percentages of operatives, for whom wages are returned in each wage class of the total number of operatives in each classified industry.

Daily working time (73 pages).—This is a textual and statistical presentation of the information obtained from the establishments engaged in manufacturing industries in the state, for the purpose of determining the length of the present working day in Massachusetts. The first set of tables shows, for each industry, by classified daily working hours, the number of women and minors, of adult males, and of all persons on Saturday; also the percentage of each such number of the whole number reported. The analysis of these tables includes a table, which presents the whole number of establishments in each industry, the number employing women and minors and male adults, respectively, and the average daily working time for women and minors and for male adults; also the average working time on Saturday. The second division of the chapter relates to the longest and shortest daily working time for male adults, and the average daily working time for all persons from May to November, and from November to May. A statistical presentation is given for each industry, by classified daily working time, with numbers and percentages, similar to the first set of tables. The analysis which follows contains a statement, by industries, of the average longest daily working time, and the average shortest daily working time for male adults; also the average number of hours per day from May to November, and from November to May for all persons employed; and, in conclusion, a statement is made of the general results arrived at by means of the investigation.

Women in industry (83 pages).—This is a textual and statistical consideration of the presence of women in industry from two standpoints: First, as partners and stockholders in manufacturing and mechanical industries; and, second, as employes in gainful pursuits in all branches of industry. The first table, in the first division of the subject, presents, by industries, the number of male partners in manufacturing industries of Massachusetts, the number of female partners, the number of estates engaged as partners, and the total number; also the respective percentages for the three classes of partners specified. The second table contains the corresponding information concerning stockholders; and the third is a combination of the two preceding tables. Analyses follow each presentation.

In the consideration of women as employes tables are presented which show the number and percentage of women employed in each of twenty occupations for each of the three census years, 1865, 1875, and 1885, and also the percentages of increase or decrease; the increase of the employment of women in twenty-one principal occupations in 1885, as compared with 1875; by occupations, the number and percentage of each sex engaged in all kinds of gainful pursuits in the year 1875, the same for the year 1885, a comparison of the percentages of females for both years, and also a statement of sex preponderance in the two years; by occupation in detail, the number of occupations in which men only are employed, women only are employed, or both sexes are employed, with recapitulations by classes of occupations. The next 13 pages contain statistics relating to the conjugal condition, age, and place of birth, of the women engaged in all branches of industry in Massachusetts. The tables relating to the conjugal condition are reproduced from the census of 1885, and show, by industries, for each sex, the number of single persons and of married persons in the manufacturing industries; a comparison in percentages; and the increase or decrease in the employment of married females in 1885 over 1875.

The tables relating to ages show, for females and males separately, first, for each of the eleven principal classes of occupations, the number in each age period; the percentage of the number in each age period of the whole number; and, by age periods, the percentage of those persons over 10 years of age engaged in gainful pursuits. The place of birth of women in each industry is shown by classes of occupations, with the number and percentage born in each place specified; also the percentages of the female population, 10 years of age and over, engaged in gainful pursuits, by place of birth. The remainder of the chapter is devoted to a consideration of the preceding presentations, and a statement, in condensed form, of the general conclusions arrived at. In this consideration are included tables showing the age periods of women engaged in housework; the number of women in each industry unemployed during 1885, by occupations in detail; the number of births and marriages in Massachusetts from 1850 to 1885, by census years; the number of marriages each year, and the average age of bridegrooms and of brides, from 1871 to 1888; the number of divorces from 1869 to 1888, by causes; the comparative death rates for males and females, by census years, from 1865 to 1885; and the births, marriages, and deaths in fifty cities and towns in 1885, and a comparison of the same with 1875.

Index to reports, 1870-1889—twenty years (47 pages).—This is a chronological arrangement of the contents of each of the reports of the bureau, and a topical and alphabetical index to all the reports combined.

TWENTY-FIRST ANNUAL REPORT, 1890.—[662 PAGES.]

Introduction (7 pages).

Labor laws of Massachusetts (112 pages).—These two divisions of the report are devoted to a compilation of the laws of the state that directly affect the interests of wageworkers, the introduction embodying the legislation enacted by the legislature during the session of 1891. They embrace the following subjects: Acts relating to fines for improper weaving; to the employment of prisoners; providing for weekly payment of wages; relating to mechanics' liens; to employment of minors unable to

read and write the English language; regulating the hours of labor of county employes; prohibiting the manufacture and sale of clothing made in unhealthy places; relating to the education of children; regulating the employment of children; prohibiting intimidation of employes; relating to liability of employers for injuries to employes; regulating the hours of labor of women and children; Sunday labor; providing for inspection of factories and public buildings; for the safety of employes in factories and on railroads; relating to cooperative associations; providing remedies for labor, etc., furnished for construction of railroads; relating to trustee process; to attachment of wages; to mechanics' liens and liens upon vessels, etc.; exempting certain property from taxation; providing for exemption from execution; relating to payment of wages by cities; securing wages in cases of insolvency; relating to liability of stockholders for wages; requiring vaccination of employes in factories; providing regulations respecting railway employes; relating to cooperative banks; creating the bureau of statistics of labor; prohibiting the sale of liquor to a person, after special notice; providing cheap transportation to workmen near Boston; relating to labor of married women on their own account; to importation of laborers; requiring seats for female employes; relating to relief societies of railroad and steamboat employes; to the sounding of bells, whistles, and gongs in factories; prohibiting use of unsafe elevators; providing for evening schools; relating to liability of railroads for causing death of employes; prohibiting the locking of factory doors during working hours; relating to instruction in schools in the use of hand tools; providing for free textbooks in public schools; requiring safety couplers for freight cars; incorporating the Improved Dwellings Association; requiring means of communication between engineers' and machinery rooms; providing for weekly payment of wages; exempting the wages of seamen from attachment; authorizing corporations to issue special stock to employes; requiring accidents in factories, etc., to be reported; providing for arbitration of labor disputes; for health of employes in factories and workshops; prohibiting employment of children in cleaning dangerous machinery; providing for proper ventilation of factories and workshops; for proper meal-times for women and children in factories; making labor day a legal holiday; to facilitate voting by employes; to prevent illegal peddling and begging by certain minors; abolishing the convict contract system; defining Contract for the labor of prisoners; relating to building and loan associations; to district police; authorizing the incorporation of labor and trade organizations; regulating the erection and construction of certain buildings; limiting the age of children employed in factories, etc.; relating to state directors in the Collateral Loan Company; to taxation of cooperative banks; requiring fire escapes for factories; requiring doors and windows in factories, etc., to open outward; prohibiting the employment of women and minors between certain hours; relating to schooling certificates of children employed in factories; incorporating certain building companies; and constituting nine hours of labor a day's work for all workmen employed by the state, a city, or a town.

Population of Massachusetts, 1890 (63 pages).—This part of the report presents in a series of tables, each accompanied by a complete analysis, statistics of the population of the state. The first table gives the population, by counties, cities, and towns, for the years 1880, 1885, and 1890, with the number and percentages of increase or decrease. Other tables give the number of towns showing an increase or a decrease in the population in 1890 as compared with 1885; the population of the state, by congressional districts, for 1880 and 1890; the population of cities and towns within a radius of 8 and of 12 miles of the state house; the rank of all the cities and towns in the state, upon the basis of population; the percentages of increase or decrease in the population of the state and counties at different census periods; the population of Boston for a number of years running from 1638 to 1890, and the population in 1880, 1885, and 1890 of the cities and towns which lead in the manufacture of textiles, boots and shoes, metals and metallic goods, leather, paper and paper goods, and furniture.

Abandoned farms (81 pages).—The information presented in this part of the report has been compiled from the returns of the several town assessors and aims to determine the location, extent, and value of abandoned farms in Massachusetts. The statistical tables, each followed by an analysis of the subject, show, by counties and towns, the total acreage of abandoned farm land, the assessed valuation and the estimated market value of such farms, the acreage and value of all farm land in comparison with the acreage and assessed value of abandoned farms, the comparative values of agricultural products and property, the comparative acreage of cultivated land, and the comparative growth in agriculture and manufacture in towns reporting abandoned farms in which manufactures outrank agriculture.

Net profits in manufacturing industries (372 pages).—For the purposes of this investigation all the various manufacturing industries have been classified under 64 industry heads, covering in all 10,013 establishments, and representing 69.21 per cent. of the total value of products manufactured annually in the state. The information, based upon returns from the manufacturers themselves, is presented in a series of tables, followed by full analyses and recapitulations intended to supplement the tabular presentations. These tables give for each industry separately the number of establishments with the amount of capital invested; the classified capital by details; the selling price of the goods made; the cost of production; the relation of cost of production to the selling price; the distribution of excess of selling price above cost of production, showing the relation of net profit to selling price and to capital invested; and the comparison of earnings and profits, in which the earnings of employes of private firms are brought into direct comparison with the profits of partners in private firms, and the earnings of employes in corporations are compared directly with the net profits of stockholders in corporations. Under recapitulation of cost of production is included an interesting table showing the relation of wages to the cost of production. Other tables show the possible financial returns to employes, if different plans of dividing the amount derived from the business had been put in operation. In conclusion, the principal facts derived from the foregoing tables are presented in a summary, by industries, followed by a review of the general results of the investigation and a final consideration of the subject.

TWENTY-SECOND ANNUAL REPORT, 1891.—[607 PAGES.]

Introduction (7 pages).—The introductory part includes the labor legislation enacted since the publication of the preceding annual report. These laws relate to the employment of women and minors for the purpose of manufacturing; provide a form of complaint for violating the provisions of the aforesaid act; relate to the payment for labor performed on buildings or public works owned by cities or towns; to the employment and schooling of children; to the hours of labor of minors and women employed in manufacturing and mechanical establishments; and to the duties and compensation of expert assistants appointed by the state board of arbitration and conciliation; provide a penalty for intimidating laborers; and prohibit the deduction of wages of employes engaged at weaving.

A tenement house census of Boston (579 pages).—This entire report is devoted to a presentation of the results of an investigation relative to the population residing in rented tenements in the city of Boston. The report is mainly tabular, the text containing little else than analyses of the tables. The first tabulation, covering 360 pages of the report, presents in detail the number of tenements to a house and the number of rooms to a tenement; the number of families having specified number of rooms; the population residing in said rooms, by sexes; the whole number of rooms in all tenements considered, with the average number of persons to a room. These statistics are presented by precincts, with a number of recapitulations and summaries, by wards, and also for the whole city. This is followed by information concerning rents. The first table exhibits average monthly rents for tenements of a specified number of rooms, showing also the average rent per room and the number of families

in occupancy of such tenements, by wards and precincts, with recapitulations. A table relating to 646 houses or estates reported to be in a bad sanitary condition, gives, by wards and precincts, the assessed valuation of the land and buildings separately, the annual rental, and the percentage of annual rental of combined valuation of land and buildings, with a recapitulation. Another table exhibits the number of houses in the city owned or rented, by wards, showing the number of tenements in rented houses, the population in rented houses and boardinghouses, the number of families in rented houses, the average number of persons to a family in rented houses, with the average number of persons to each rented house.

Other short tables show the comparative growth of the population in different districts of the city with the increase in houses, in 1875 and 1891; and the total number of dwellings with families in occupancy thereof, in 1890, and the average number of persons to a family, in 1880 and 1890, in each city in the United States containing a population in excess of 400,000, from data derived from the United States census.

MICHIGAN.

FIRST ANNUAL REPORT, 1884.—[217 PAGES.]

Origin of the labor bureau (3 pages).—This gives an extract from the governor's message recommending the establishment of the bureau, and a copy of the act creating it and defining its powers and duties.

Introductory (9 pages).—A copy of each blank sent out, and the letter of transmittal are here given.

Penal institutions (42 pages).—Under this head are given statistical tables concerning the cost of maintenance of the state penal institutions and their inmates, and a textual consideration of the tables, of the origin and workings of the different penal institutions, of the different methods of employment of criminals and of the causes of crime. The tables give the amount expended at each state penal institution for the period 1836 to 1861, and for each year, from 1861 to 1882; the occupations and salaries of the officers and employes of each institution; and the number and general nativity of inmates of each, by periods of four years, from 1839 to 1882; the number committed to each, up to and including 1882, by previous occupations and by offences; the number received at each during different periods by number of terms served, the number received at the state house of correction in 1880, by terms served and ages; the number received at the Detroit house of correction, from 1862 to 1882, by years and localities; the number received at different penal institutions, by age periods and years; the number of days' labor performed under existing contracts in the state prison and the revenue derived therefrom during the years 1878 to 1882; the prison contract and free labor cost of manufacturing four grades of brooms; the number of days' labor performed and days lost at the Ionia house of correction, each year, from 1879 to 1882; the receipts of the same institution for the same years, by sources; and the causes of the crimes resulting in commitments to the eastern Pennsylvania penitentiary during 1881.

Labor organizations (23 pages).—This is a textual account of the origin and principles of the principal labor organizations in the United States.

Wageworkers, their earnings, etc. (97 pages).—This subject embraces statistical tables giving the number of laborers making returns, in separate tables for each sex, classified by occupations and amount of wages received; also by nativities, occupations, and marital relation; by occupation, showing the number that are natives of Michigan and the number that are natives of other states or countries, classified according to the number of years at present occupation, and if foreign, also by number of years in the state; the number of foreigners, by occupations, in separate tables

for each nationality, showing length of time in the United States, in Michigan, and in present occupation. Tables also give, by occupation and nativities, the number of males boarding, renting or owning houses, taking newspapers, etc., with summaries by nativities and occupations, by nativities and ages, and by occupations and ages; the number of children employed, by occupations of fathers, by sex, age periods, and nativity of parents, and the number of fatherless children, by sex, age periods, and occupations of mothers. Returns from employers give the number of employes receiving certain wages, by occupations and hours of labor; the wages paid farm laborers, by seasons of the year and counties and townships, with a summary showing the number receiving certain wages; and tables showing the salaries paid by the state, by the city of Detroit, by Wayne county, and in the army.

Conditions (22 pages).—This chapter consists of a brief textual consideration of the conditions of labor in the state, and miscellaneous statistical tables showing the increase in population in the state and the increase in the number of farms, from 1870 to 1880, by counties; the number of acres of improved and unimproved lands in 1882, for certain counties; the increase in assessed valuation of property, from 1872 to 1883, by townships and cities of Wayne county; the population of the state, number supported in poorhouses or temporarily relieved, and permanent paupers not in poorhouses, and amount expended on them each year, from 1870 to 1880; immigration into the state, by age periods and sex, in 1883; the number of voluntary applicants for admission to prisons and their previous occupations; the capital, number of employes, and products of farms and manufacturing industries, from the census of 1880; exports in 1883; dividends paid by the Lake Superior copper companies in 1881; amount of copper shipped by the Quincy Mining Company, the yield of refined copper, receipts, dividends, expenses, number of employes and their earnings, the cost of production per pound, average selling price and profit for the years 1863 to 1882, and general statistics of the company.

Miscellaneous (4 pages).—This treats briefly of the collection and publication of statistics, including recommendations by the commissioner.

SECOND ANNUAL REPORT, 1885.—[447 PAGES.]

Introductory (10 pages).—This is a letter of transmittal, giving the difficulties under which the bureau labored in getting out the report, and copies of blanks used during the year.

Decennial census (5 pages).—This embraces a table showing the cost of taking the state census for 1884, by counties, and a copy of the act of Massachusetts providing for taking the decennial census and the industrial statistics of the commonwealth.

Strikes and combinations (43 pages).—This chapter gives accounts of strikes, pools, and combinations occurring during April, May, June, and July, 1883, clipped from local newspapers; a brief sketch of the Hocking Valley (Ohio) strike in 1884, as given by the commissioner of the Ohio bureau in reply to an inquiry made; a notice of the Oscoda and Au Sable strike in 1884; under the heading Boards of arbitration several articles from the North American Review, including one on Corporations, their employes and the public, by Carl Schurz; another on Lords of industry; and extracts from the Manual of political economy, by H. Fawcett, M. P.

Child labor (55 pages).—This embraces a textual and statistical consideration of child labor in the state and in the United States and of manual training in public schools. The text embraces an article by John S. Clark on Industrial education from a business standpoint, and extracts from other articles or addresses; and a copy of the Massachusetts laws regulating the employment of children, payment of wages under special contracts, prohibiting intimidation of employes, and relating to the liability of employers for injuries to employes, inspection of factories, etc. Statistical tables, compiled from the school censuses of certain localities, from the United States census reports, and from available school reports, give, by ages, the school popula-

tion of Detroit for 1883 and 1884, and the number attending public or private schools, the number attending no school, and number at work; the same for East Saginaw, from 1874 to 1881, and for several other cities and counties for 1883; the occupations of 659 children of Detroit, between the ages of 7 and 14; a comparison of the population and school attendance of 44 cities of the United States in 1870 and 1880; the population and average school attendance of Great Britain, by years, from 1851 to 1882, and of Ireland, from 1865 to 1882; the total number of persons employed and number between 10 and 15 years of age in the United States in 1870 and 1880, by three groups of industries, and the increase and per cent. of increase of each; the same for 50 cities and for Detroit. The tables also show, as the result of a canvass made, the number of children under 17 years of age employed in Wayne county, by occupations; the number receiving certain classified wages; the occupations, ages, parental relations, and time employed, by sex, of children employed in Detroit and Grand Rapids; and the same by classified wages received.

Wageworkers (237 pages).—The information under this head is given chiefly in statistical tables, presenting separately for each city and county canvassed the number of workmen making returns, by ages, and in some cases by nationalities, showing also the number owning homes, or renting rooms, and their conjugal condition; the ages and occupations of 663 females; the number of workmen, their occupations and the number of rooms occupied; the number of workmen, by occupations and monthly rental paid, and by wages received and occupations; and the same information for Wayne county, by nationalities, number in family, and number of rooms occupied. Tables also show the distribution of 971 children employed in Wayne county with reference to daily rate of fathers' wages; for a number of employes making returns, the occupation, location, and wages received, separately for each sex. A table shows the number of hours constituting a day's work at Au Sable and Oscoda. Other tables show the prices of different commodities and the quantity of each that one dollar would buy in 1860 and 1881; the highest and lowest prices of commodities, by years, from 1825 to 1882, taken from the American Almanac for 1884; the number of employes in certain industries, the time actually worked, the possible working time, and time lost; the irregularity of employment in several building firms; for four decades, the average number of persons to a dwelling and to each family, by states named, and for 49 cities in 1870 and 1880; the death rate in Detroit, by wards and age periods, in 1884. Employers' returns give the locality, industry, occupation, and wages received by employes. A textual article from the North American Review, January, 1885, by Richard J. Hinton, on Labor organizations, gives the names and membership of various labor organizations within the United States, and another article gives an account of the window glass workers' strike in September, 1882.

Ownership of real estate (52 pages).—This chapter embraces statistical tables, with textual comments, compiled from returns made by assessors, giving, by counties and townships, the number of persons and companies owning land, the number of acres owned, with assessed valuation, the number of acres rented, with valuation, and the number of rented farms; the number of acres owned by each one of 205 non-resident land owners, and the assessed valuation thereof; the proportion of land held by residents and non-residents of Marquette county; the distribution of real estate in various localities of the state, with number of owners, population, and gross value of property in each; and the number and amount of mortgages on property in Detroit, held by both residents and non-residents, given from 1875 to 1883, inclusive, which were not discharged prior to 1884.

Agriculture, manufacture, and mining (6 pages).—This comprises miscellaneous statistical tables, giving general agricultural and manufacturing statistics of the United States for 1870 and 1880; the comparative value of products of farms and manufactures for 1870 and 1880; the annual production, acreage, value per bushel, total value, yield per acre and value per acre of cereal crops of the United States, by years, from

1868 to 1878; the present capital and gross dividends declared by 43 New England manufacturing companies, for 12 years, ending 1882; the product and value of copper of the Lake Superior mines, by years, from 1854 to 1882, and of upper peninsula iron mines and furnaces, by years, from 1872 to 1882; the number of miles of railroad operated in the United States, the gross earnings and the dividends paid, by years, from 1871 to 1882; the length of lines, messages sent, expenses, etc., of the Western Union Telegraph Company, by years, from 1868 to 1882; and the amount of bank deposits in the United States in 1876 and 1882, by kind of bank.

National conventions of chiefs of bureaus of labor (23 pages).—This gives a statement of the proceedings of the first and second annual conventions of the chiefs of labor bureaus, and embraces a synopsis of an article by Prof. Sanborn on Labor and statistical problems of the farm, and a copy of the joint report made by the chiefs and commissioners of the various bureaus of labor of an investigation of the economic experiment conducted by the Pullman Palace Car Company. The sketch includes the history of Pullman, the methods of construction, a table giving its growth in population, and a brief discussion of wages, rents, expenses of living, health, etc.

THIRD ANNUAL REPORT, 1886.—[413 PAGES.]

Third annual convention of chiefs of bureaus of labor, 1885 (81 pages).—This presents a textual report of the proceedings of the meeting and embraces the following papers: Influence of invention upon civilization, by Chauncey Smith; Statistics of consumption, by Edward Atkinson, which contains tables giving the average cost of food for nine persons, mostly Irish, in a boarding house, and for a French Canadian family in Massachusetts; Chemistry and economy of foods, by Prof. W. O. Atwater, which contains tables showing the weight of compounds in the human body, the percentages of different substances in various foods, percentages of indigestible matter in foods, the comparative cost of protein in foods, comparative amounts of nutrients and their cost in foods, standards of daily rations for persons of different ages, etc.; and an address by Carroll D. Wright on the Work of the United States Bureau of Labor.

Strikes in Michigan, March 1 to December 1, 1885 (52 pages).—This part of the report gives a mainly textual account of the strikes occurring in the state during this period. Tables compiled from data collected by special agents for the strike of mill hands in Saginaw valley, give for 77 saw and shingle mills and for 58 salt blocks affected by the strike, the number of men and boys employed prior to the strike, the number of employes, men and boys, and their wages, by occupations, the number of employes, by nativity, and a summary showing average wages and frequency of payment of wages. It also contains copies of laws regulating the hours of labor of employes, prohibiting the intimidation of employes, and a general consideration of arbitration of labor disputes.

Testimony of wageworkers (38 pages).—This chapter gives a textual and statistical tabulation of replies received in response to circulars sent to laborers. The tables give for various numbers of individuals their ages, nativities, the number of persons dependent upon them for support, their wages, by groups, their hours of labor, the occupations of wageworkers working over ten hours, the number paying certain rents, in detail, and the average retail prices of commodities in 1885, in each of sixty-nine counties of the state. Textual extracts from returns of assessors are also given.

Wages and wage-earners (229 pages).—This comprises statistical tables based on returns from supervisors and from circulars sent out, treating of the wages of farm laborers, railroad employes, and employes in manufacturing and other industries of the state, in three separate chapters. The tables for farm laborers give the average wages paid regular farm laborers, with and without board, and average time employed, by counties and congressional districts, with summaries showing the number receiving certain classified wages; the number of farms and number of acres improved and unimproved, for the years 1882, 1883, and 1884; the acreage and amount

of wheat raised and number of sheep owned in the state in 1885, by congressional districts, and the average wages of farm hands. Tables from consular reports give farm wages in sixteen foreign countries in 1884, and the cost of living of a German farming family. Tables for railroad employes give the total number of railroad employes in the state, by roads and by occupations, and wages received. Other tables from consular reports give average wages on railroads paid in foreign countries in 1884, by occupations. Tables for manufacturing and other industries, as a result of a special canvass, give, in two series, the one for manufacturing industries and the other for business houses, by location and industry, the number of employes, by sex, and whether under or over 16 years of age, their hours of labor, savings, nativity, sanitary and civil condition, the number owning or renting houses, etc., with summaries, by localities and occupations; the number of laborers, by industries, whether over or under 16 years of age, and classified daily wages received, with a summary, by sex; and the number of employes, by counties and industries, as reported by the supervisors of the state, their sex, wages, hours of labor, number of days lost and sanitary condition of place of employment, etc.

FOURTH ANNUAL REPORT, 1887.—[282 PAGES.]

Convict labor (233 pages).—This consists of a mainly textual consideration of the general problem of convict labor in the different states and in Michigan. It is divided into a number of chapters, giving state legislative action, a description of penal institutions and systems of prison labor in Michigan, the result of interviews with prison officials and contractors secured by the commissioner in visits to the penal institutions of a number of states; reports from various states, showing the different systems for the employment of convicts and the length of time in force; the results of interviews with wardens of Michigan prisons relative to contract labor; the replies from manufacturers of goods similar to those made in Michigan prisons to questions sent out by the bureau requesting their views in regard to prison labor; prison labor as discussed by wardens, prison officials, and prison reformers at the National Prison Congress, held at Atlanta, Georgia, in November, 1886; conclusions regarding convict labor competition; and an appendix giving a brief sketch of the National Anti-Convict-Contract Association. There are fourteen full-page illustrations, showing views of corridors, workshops, cells, etc., of various penal institutions. Throughout the text are various short tables. For Michigan are given the number and the character of the work of prisoners in the state prison in 1886, and the number assigned to each contractor; the total product of prison labor, and a recapitulation of the terms of the contracts; the number and the kind of work of prisoners in the house of correction and reformatory at Ionia in 1886, and a statement of existing contracts; the same for the reform school at Lansing; the number of girls at the industrial home, Adrain, by age, and number on ticket of leave; the quantity of goods manufactured in the Detroit house of correction each year, from 1881 to 1885; the occupations, number employed, and on what account, of prisoners in penal institutions of Michigan, in October, 1886; prices paid for convict labor and the total product of goods; the number of convicts at work by various systems in the manufacture of the same goods as made in penal institutions of Michigan, by states and occupations; a comparison of the total number of prisoners working in penal institutions of Michigan, with the total number of prisoners working in 22 other states, by systems and kinds of goods made; and the number of prisoners received at the different penal institutions of the state and number of times committed, by age periods and terms of service. Fourteen other part-page tables give for various institutions in different states miscellaneous information concerning the number of inmates, the goods manufactured, and contract prices, among which are three tables giving for the prisons whose wardens answered the circular, the location of the prison, the year opened, the first system of working

prisoners, the number of years in force, why abolished or changed, and the system now in force; the number of convicts engaged in manufacturing goods similar to those made in Michigan prisons and in institutions in other states replying to circulars, by age periods, sex, and kinds of goods made; and the class of goods, the market value, and the amount sold in Michigan by prisons in other states manufacturing the same goods as manufactured in Michigan prisons.

Child labor (36 pages).—This presents a statistical treatment of the employment of children in the state, based mainly on returns of special canvassers for the principal manufacturing centers of the state. Circulars were, however, sent to manufacturers, answers to which give, by industries, the daily wages of children, by sex and ages; the number of establishments of each kind in which children were employed, the schooling of the children, their hours of labor, etc. Returns from canvassers give, by cities and industries, the number of establishments, number and wages of children, by ages and sex, their schooling, hours of labor, etc., and a recapitulation for all places canvassed. Extracts from the law relating to the employment of children, with recommendation for additional legislation are also presented.

FIFTH ANNUAL REPORT, 1888.—[438 PAGES.]

Introductory (5 pages).

Ownership, acreage, valuation, and mortgage indebtedness of farms, etc. (82 pages).—This chapter contains six tables based on data collected by the supervisors directly from the farmers, in making the assessments of their respective townships in April, 1887. They give for each township (except a few not reported) the number of farms, the number occupied by owners, the number occupied by tenants, the assessed valuation of farms occupied by each, the number of farms mortgaged, and of those not mortgaged, the valuation of each, the number of acres improved or unimproved, the amount of the mortgage indebtedness, the average rate and amount of interest paid annually, the number of laborers employed, the average number of months employed, and the average monthly wages; the same by counties, giving also the average number of acres in farms, the percentage of the amount of mortgages to the total assessed valuation of farms mortgaged, and of all farms; the assessed valuation of farms, by counties, and the mortgage indebtedness of farms; the total interest paid and the annual interest per acre on improved lands mortgaged; the estimated mortgage indebtedness and total assessed valuation of farms in 1886, with the average rate of interest as reported, and amount of interest paid annually, based on the average rate reported for 1887; a recapitulation, by counties, showing the number of farms and number of acres improved and unimproved occupied by owners and by tenants, the average number of acres to a farm, the average number of employees, and their average wages; the number of mortgage foreclosures and number of redemptions, number of sales on levy of execution and number of redemptions as reported from records of each county, for the year ending July 31, 1887; and the number of farms in each county, classified by size.

Nativity of farmers, and comparative prosperity, by nationalities (263 pages).—This division of the report contains a statistical table based on the same data as the foregoing, giving, in 252 pages, by counties and townships, the number of farmers, by nationalities, their average length of time in the United States, the number bringing money and the amount brought, the assessed valuation of farms and the amount of mortgage indebtedness; and other tables giving, by counties, recapitulations of the same, showing also the number of Americans owning farms, the valuation of and mortgage indebtedness on their farms; and also, by counties, the number in each nationality owning and occupying farms.

Summary by counties, and conclusions (41 pages).—This comprises a textual summary of the two foregoing parts, by counties, with extract from the law of California relating to taxation of deeds of trust, mortgages, etc.

Strikes and lockouts in Michigan (38 pages).—A table is here presented, from the Third Annual Report of the United States Bureau of Labor, 1887, giving a list of strikes and

lockouts in the state, by years, from 1881 to 1886, and by industries, showing for each strike or lockout its locality, cause, whether ordered by an organization, the number of establishments involved and the number of days they were closed, the date and duration, the result, the losses to employers and to employ  s, the number of employ  s, by sex, their hours of labor and wages before and after the strike or lockout, and the number of strikes, etc. A textual account of strikes and lockouts occurring in the state in 1887 is added.

SIXTH ANNUAL REPORT, 1889.—[319 PAGES.]

Introductory (3 pages).

Statistics of the fire clay, slate, coal, grindstone, gypsum, building stone, and copper industries (221 pages).—Under this heading are given separate statistical tables for each of the above-named industries, obtained by personal canvass of workmen, giving, for each man interviewed, his occupation, age, nativity, nativity of parents, how long in the United States if foreign born, whether married or single, the number of children, the number dependent upon him, the number of years at present occupation and with present employer, the number of months employed, his hours of labor, wages, earnings, whether paid in cash or by trade, the frequency of payment, amount of savings, his wages compared with former wages in this country and in the old country, whether having money at interest or in bank, the amount of money brought with him into this country, the value of his home if any, amount of mortgage and rate of interest, whether as well off as five years ago, his loss of time and the causes therefor, whether renting his home or boarding, with amount of rent or price of board, whether life is insured, whether belonging to a benefit society and amount of the benefit, whether owning a sewing machine or piano or taking a paper, age at beginning work, health then and now, amount of relief rendered friends in the old country, and the amount furnished them for passage to this country. Preceding each table is a written summary of statistical information.

Summary, by nationalities (5 pages).—Two summaries of the foregoing tables give, by nationalities, substantially the same information as above.

Comparison, by nationalities, of wages in the old country with wages in Michigan (19 pages).—The above subject contains tabular statements, by nationalities, showing for each foreign born workman his occupation and wages received in his native country and his occupation and wages in Michigan, based on reports previously mentioned.

Sixth annual convention of chiefs of bureaus of labor statistics, May 22, 1888 (63 pages).—This comprises a textual report of the proceedings, the report of the secretary giving a list of labor bureaus, and contains the following papers: Suggestions for work, by Edward Atkinson; Proposition to establish a registrar-general's office as an executive department of the United States government, by Prof. Wm. W. Folwell; Practical aspects of the labor question, by John Lamb; The Bread line, by Matt J. Simpelaar; Industrial education, by James H. Smart; Settle the apprenticeship question by inaugurating industrial schools, by T. V. Powderly; and Some moral and economic consequences of using labor-saving machinery, by Albert S. Bolles.

SEVENTH ANNUAL REPORT, 1890.—[394 PAGES.]

Introductory and general summary (10 pages).

The furniture manufacturing industry of the state (305 pages).—This comprises a statistical inquiry concerning the furniture manufacturing industry of the state, based on visits by special agents to 78 factories and on interviews with the men employed therein, their answers to inquiries being recorded on blanks furnished by the bureau. There are 24 tables, divided into three divisions, of 8 tables each, for the city of Grand Rapids, for Detroit, and for all cities and villages outside Grand Rapids and Detroit, in order to compare the condition of villages and large cities. Three tables, one for each division, give, by companies and occupations, the testimony of each workman interviewed, showing his nationality, conjugal rela-

tion, number in family, number supported, number of months employed, time lost, the causes for loss of time, his wages, the total annual family earnings, the amount of money he had on arrival in the United States, if foreign born, his family expenses during the year, the amount saved, the amount at interest or in bank, whether he owns a home and the value of the home owned, the mortgaged indebtedness of the home, if any, whether he rents rooms, the monthly rental, whether he owns a sewing machine and musical instruments or takes a newspaper or periodical, and the amount of life insurance and benefit provided in case of death, sickness, or accident. Three other tables give summaries of the foregoing information, by establishments. Three tables give, by establishments and age periods (under 15, 15 to 19, and over 19), the number of persons interviewed, the average number of months employed, the average annual earnings, the number supporting families, the number of persons supported, the total family expense and average expense per capita. Three tables give, by establishments, the number of men having families, number and percentage owning and renting houses, total annual earnings, expenses, the amount paid for rent and the percentage which such amount is of earnings and of family expenses. Three tables for those over 19, those between 15 and 19, and those under 15 years of age, give, by establishments, the number foreign born and the number native born, the number having foreign born parents and the number having native born parents, their average age at beginning work, kind of work, and the number who can read or write. Three final tables give employers' reports of the number of employes, the aggregate wages paid, and wholesale value of goods manufactured during the fiscal year. A general summary or synopsis gives, in 82 pages of text, returns for each firm and summaries for each of the divisions treated of in the tables.

Law establishing bureau of labor and industrial statistics (2 pages).

Seventh annual convention of chiefs of bureaus of labor statistics, June 25, 1889 (66 pages).—This gives a textual report of the proceedings, embracing a list of labor bureaus then established; the address of the president, Carroll D. Wright; reports of work being done by various bureaus; a paper by Charles F. Pidgin on Statistical tabulation by machinery; a table giving for the United States and for various foreign countries the average earnings of a skilled blacksmith, his hours of labor, earnings for 10 hours' work and the purchasing power of his wages in four staple commodities in the United States and in foreign countries; a paper by Mr. Betton, commissioner of the Kansas labor bureau, on the Dressed beef monopoly, being a textual and statistical inquiry whether the price of meats has or has not increased in consequence of the meat business being in a few hands; and a sketch of the growth of the meat industry. Tables give the price of meats at Armour's, Chicago, in 1889, and at local butchers' shops, for the years 1879, 1881, and 1889; the number of sheep, swine, and cattle in the United States in 1870 and 1880, and in the principal cattle-raising states in 1880 and in one of the years 1884, 1886, 1887, or 1888; also the price at the Kansas City stock yards of steers and hogs, from 1878 to 1889; receipts at the same yards, from 1880 to 1888; receipts of cattle at Chicago, from 1885 to 1888; and the current price of beef cattle and beef products at Kansas City, in December, 1885 and 1888. The report of the work being done by the New York bureau includes a table giving for 1886, 1887, and 1888, the number of establishments engaged in strikes in the state, the number of persons involved in them, the number refusing to work, the loss of wages, cost to labor organizations, estimated gain in wages and loss to employes.

EIGHTH ANNUAL REPORT, 1891.—[475 PAGES.]

Introductory and general summary (13 pages).—This gives a textual description of the methods pursued in making the investigation.

Information from employes in agricultural implement and iron-working industries (451 pages).—This report gives statistical tables concerning 8,838 workmen, employed in 201 shops and manufacturing institutions in twenty-five cities and villages in the state, the information being obtained by employes of the bureau, who, in person,

visited all the shops and factories enumerated, and secured directly from each working-man the facts desired. These tables give, by cities and establishments, returns for each individual questioned, showing his occupation, age, nativity, the nativity of his parents, his conjugal condition, the number of children, the number at school, and the number supported by him, his hours of labor, the number of weeks lost, the causes for loss of time, his weekly wages and annual earnings, his family expenses, the amount saved, the amount paid for board, whether he owns a home, the mortgaged indebtedness, if any, whether he belongs to a benefit society, whether his life is insured; if foreign born, the number of years he has been in the United States and the amount of money he had on arrival in the United States, and the amount of property he now has, etc. The tables for each town and city are followed by a textual summary giving totals, averages, and percentages. A general textual summary gives the same for all cities. Other tables give the totals of the general tables, by towns and by nationalities; and by towns and cities, the number native and foreign born, the number born of American parents, the number born in the United States of foreign parents, the total and average number of weeks employed, the total annual and average annual earnings of those 19 years of age and over and of those under 19 years of age.

NINTH ANNUAL REPORT, 1892.—[492 PAGES.]

Introduction (2 pages).—This part reviews the work done by the bureau during the past year.

Text of report (9 pages).—This gives a short analysis of each chapter of the report. Following the analysis, in two pages of text, is given a copy of the act creating and defining the duties of the bureau of labor and industrial statistics as amended by the session laws of 1891.

Wage tables of women wageworkers (188 pages).—The information under this head is given chiefly in statistical tables, based upon data obtained by the agents of the bureau from 13,436 workingwomen, employed in 137 different industries and 378 occupations, in the cities of Detroit, Grand Rapids, Saginaw, Bay City, Jackson, Muskegon, Lansing, Ypsilanti, Owosso, Pontiac, Rochester, Belding, Three Oaks, and Wyandotte.

Tables, arranged by industries and occupations, show separately for each of the above-named cities, the number of workingwomen reporting, the daily, weekly and yearly average wage income, the average yearly expenses as paid out of the wages, and the average savings; the daily and weekly hours of labor, the time of beginning and quitting work, and the time allowed for dinner; the state of health for the past year and also at the time of their beginning as a wage-earner, with the number reporting accidents; and a detailed statement of the surroundings of the workingwomen when resting from their work, with summaries.

Other tables show the conjugal condition, nationality, and nationality of parents; the sanitary condition of the factory or workshop; the time lost, and the cause thereof; the length of time at work at present and past occupations; the number who own homes and personal property, the amount of mortgage on each home, if any, and the rate of interest paid; and the number who rent rooms, and the monthly rents paid, with summaries.

The text contains analyses of the tables, remarks on the general condition of the workingwomen in each of the cities canvassed, and several pages devoted to remarks, comments, and suggestions of the workingwomen, pertaining to the individual life of each. Interspersed throughout the chapter are four full-page engravings, giving views of the spooling and soft silk winding room, the assorting room, the winding room, and the spinning and doubling room, in Belding Bros. and Co's silk mill, at Belding.

Detroit mortgage tables and ownership of real estate (50 pages).—The mortgage tables show the number and amounts of city mortgages held by residents and non-residents

of the city of Detroit, each year, from 1884 to 1890, with recapitulations for each year.

There is also given a table showing the number and amount of mortgages held by residents of Detroit upon property in various counties of the state, for the years 1884 to 1890, inclusive.

Other tables show the number of real estate owners in the city of Detroit and the amount owned by each, with a recapitulation for 1891 and comparison with a similar table for 1884, the assessed value of real estate, the amount of mortgages filed, the amount of mortgages filed upon values under \$1,500, and the percentage of the same to the whole mortgage indebtedness, etc., each year, from 1884 to 1890.

Land values (104 pages).—This is a textual and statistical consideration of the values of city, farm, and other lands in the state. Tables are given showing, by counties and townships, the acreage and value of bare land, the value of improvements thereon, and the value of personal property; the number of acres to each farm for two representative townships in Shiawassee county, with value of bare land, value of improvements thereon, and the estimated market and assessed value; the assessed value of property in 62 cities and towns, and their population, with the average amount of real estate and personal property to each individual; the growth of the state, by separate industries, and their comparative growth, from 1880 to 1890; the profits, by separate industries, and their influence upon concentration of wealth, and the corresponding fall of farm industry; and the area in acres, and the assessed valuation and population, by cities and by counties, for the upper peninsula. To present the information on land values and taxation in a condensed form, a number of diagram circles are used, each one showing the land value and tax matter in a different relation. Other tables show the divisions, assessments, and market values of land in Detroit, with maps of the divisions; give statistics for railroads in Michigan for 1891, and United States railroad statistics for 1889; and exhibit the railroad accidents to passengers and to railroad employes in the United Kingdom, each year, from 1874 to 1890. The text includes a history of the movement to tax railroad property; a paper by Thomas G. Shearman, on Taxing personality, read before the joint committee on taxation of the Ohio legislature in 1889, and a summary on taxation, farm labor, and capital.

Strikes (44 pages).—This part is divided into three sections. Section I is a general review of the strikes that occurred among the workingmen in the state during the past year, with details of the most important ones. Section II gives a brief account of the most important strikes that occurred throughout the United States during the year, and a simple mention of the numerous minor ones. Section III is a notation of foreign strikes.

Miscellaneous statistics (17 pages).—This gives statistical tables showing the average yield of wheat per acre in the United States and various foreign countries; the small holdings in Great Britain not exceeding 50 acres, in 1885 and 1889; the rental and ratable value of London, each year, from 1874 to 1891; the rate of taxation per \$1,000 in the city of Detroit, by years, from 1884 to 1891; the annual expenditure and amount of debt per capita of various American and European cities; a comparison of recent censuses in the United States and foreign countries; the legalized expenditures for borough and county members of the English parliament; the nativities of persons arrested in Grand Rapids and Saginaw; the number of persons arrested in Detroit for the year ending January 31, 1891, their occupation, nativity, and cause of arrest; and the number arrested in Detroit, with classified causes of arrest, for the years 1885 to 1890. There is also given a diagram, taken from the almanac of the English Reform Association for 1892, showing Ricardo's theory of rent as expounded by Henry George; this is followed by comments on the tables.

Compendium of the Michigan labor bureau reports (23 pages).—This is a complete résumé of all the Michigan labor reports from the establishment of the bureau up to the present date.

Labor laws (12 pages).—This gives a compendium of the national law to prevent foreign immigration under contract; the text of the Ohio law providing for the creation of free public employment offices in the cities of Cincinnati, Cleveland, Columbus, Dayton, and Toledo; and the text of the laws of the state regulating the hours of labor of employes and children; requiring suitable seats for female employes; providing for the protection of employes; requiring blowers to be used with emery wheels and belts; providing for incorporating trade and labor organizations; relating to homestead executions; to the protection of females against execution; to the protection of labor debts from stay of execution; to mechanics' and other liens upon real property; to proceedings against garnishees before justices of the peace; and to the employment of mine inspectors.

MINNESOTA.

FIRST BIENNIAL REPORT, 1887 AND 1888.—[269 PAGES.]

Introduction (7 pages).—This gives a textual consideration of the duties and lines of work of a labor bureau and a copy of the act creating the Minnesota bureau.

History and objects of labor bureaus (54 pages).—Under this head are given three papers: Growth and purposes of bureaus of labor; Study of statistics in colleges; and History of the Massachusetts bureau of statistics of labor, by Carroll D. Wright. This last gives a copy of the act creating the bureau, the names of its officers, the expenditures of the bureau since its organization, in detail by years, the number and cost of all its publications and their contents, and a list of books in the bureau library.

Sixth annual convention of chiefs of bureaus of labor, 1888 (65 pages).—This gives a textual report of the proceedings. It embraces a list of labor bureaus, with the date of establishment of each, and the following papers: Suggestions of work, by Edward Atkinson; Proposition to establish a registrar-general's office, by Prof. William W. Folwell; Practical aspects of the labor question, by John Lamb; Industrial education, by Prof. James Smart; Settle the apprenticeship question by inaugurating industrial schools, by T. V. Powderly; and Some moral and economic consequences of using labor-saving machinery, by Albert S. Bolles. Also, extracts from a paper by Mr. Bert. Stewart, of Illinois, on Work and the methods of doing it. Each bureau made a report as to what work was being done by it.

Wage-working women (66 pages).—This chapter gives a textual and statistical consideration of the condition of workingwomen, based on personal visits and interviews with the wage-working women, the employment agencies, and the employers. The remarks of employers and of employes concerning the conditions surrounding domestic service are given at length. The question of board and rooms is treated textually, and the rent of various rooms given. Tables give, for those women investigated, classified by employments, their ages, nativities, nativities of parents, the number of years at school, their ages at leaving school and causes for leaving, their conjugal condition, hours of labor, wages, length of time employed, the number who save money, their objections to housework, the average cost of board, etc. A summary gives the average wages of women, by occupations.

Cooperative industry (56 pages).—This gives a textual account of various cooperative industries in the state. Especial attention is given to cooperation among the coopers of Minneapolis, to profit-sharing at the Pillsbury mills, and to the erection of a labor temple. A compilation of the state laws on cooperative associations is also given.

Strikes (9 pages).—This embraces a textual account of thirteen strikes and two boycotts occurring in the state during 1887 and 1888.

The necessity for statistics (4 pages).—This treats of the necessity and utility of gathering statistics, including an extract on the same subject from the opening address of the National Farmers' Alliance.

SECOND BIENNIAL REPORT, 1889 AND 1890.—[377 PAGES].

Introduction (6 pages).—This contains a general consideration of the utility of statistics, and of the proper duties of a bureau of labor statistics.

School attendance (143 pages).—This chapter gives a comprehensive textual and statistical consideration of the different problems connected with the education of children both in the state and in the United States. The text embraces discussions of compulsory education, half-time schools, truancy, etc., and is largely made up of lengthy quotations from reports of school officers and prominent educators, and particularly of extracts from the report of the United States Commissioner of Education for 1887-'88. It includes a brief history of the growth of and attendance upon voluntary and board schools of England since the passage of the elementary education act of 1870; extracts from the special report on certain points connected with elementary education in Germany, Switzerland, and France, made in 1886 to the education department of England, by Matthew Arnold; a copy of the address of A. W. Crecraft, before the State Educational Association of Indiana, on Compulsory education; and an address by Oscar H. Cooper, of Austin, Texas, before the National Educational Association, 1890, on Compulsory laws and their enforcement. Tables, and accompanying remarks, taken from the report of the United States Commissioner of Education for 1887-'88, give, by states and geographical groups of states, the total population, the density of population, the population between 6 and 14 years of age; the number of school children enrolled, the increase or decrease over the preceding year, and the proportion of the number enrolled to the total population and to the school population; the average daily attendance at public schools, the total attendance in days, the average length of the school year, the number of pupils enrolled in private schools, etc.; and a summary, by states, geographical divisions, and classes according to population, of comparative statistics of enrollment, attendance, teachers, and sittings in schools of cities and towns containing over 4,000 inhabitants. Other tables for the state, compiled by the bureau from teachers' term reports to county superintendents, give for each county and city, separately, from which returns could be received, including parochial schools, the number of pupils enrolled, by ages, and the total and average number of days of attendance, with summaries for the state, exclusive of cities of 3,000 inhabitants and over, and for 19 cities, and the totals for all ages for each county and city. The percentages of the school population attending school, and the percentages of adults who can read, in most of the European countries and in the United States, Mexico, New Brunswick, Nova Scotia, and Ontario, are also given.

Child labor (80 pages).—This chapter gives a textual consideration of the whole problem of child labor, and a textual and statistical treatment of child labor in the state, based on inquiries made by the bureau. The text includes a short review of English legislation, and a synopsis of the factory act of 1878, so far as it applies to textile factories, from the report on the Factory system of the United States, by Carroll D. Wright, tenth United States census, 1880; copies of the acts of Massachusetts regulating the hours of labor, the employment of children, and the inspection of factories and public buildings, etc.; quotations from two essays on Child labor, by William F. Willoughby and Miss Clara de Graffenried, published by the American Economic Association, and a consideration of the increase in the employment of children as shown by the tenth United States census, 1880, with short tables showing the increase in the number engaged in all occupations, compared with the increase in population; the increase in the employment of women, and of children under 15 years of age, compared with the increase of the number engaged in all occupations; and the net and percentage increase from 1870 to 1880, of males over 16, of females over 15, and of children engaged in gainful occupations. The tables for the state give, according to occupations as far as canvassed, in separate tables for boys and girls, the number of children employed, by age, by occupa-

tion of father, by age at commencing work, and by educational condition; also their average hours of labor, average wages, whether their parents are living or dead, the total and average number of months worked, and the total and average number of months attending school, by occupations, with a separate table for each city canvassed.

Manual and technical training (67 pages).—This part of the report gives a comprehensive textual consideration of the question of manual training. It includes extracts from numerous addresses; a copy of a paper on manual training in grammar grades, by Superintendent Bradley, of the Minneapolis public schools, read before the annual meeting of the National Educational Association; the quoted opinions of prominent English educators; cuts illustrating lessons in woodworking, designed for use in high schools by W. F. Decker, supervisor of manual training, Minneapolis public schools; a copy of a paper by T. V. Powderly, entitled *Settle the apprenticeship question by inaugurating industrial schools*, read at the sixth national convention of chiefs and commissioners of labor statistics; also a lengthy extract from a paper on Manual training, by President Smart of Purdue university, Indiana, read at the same meeting, containing illustrations of engines and a forge made by students of the Purdue university; specimens of courses of instruction in manual arts and cooking in different schools; a list of cities whose public schools have incorporated manual training in some of its forms into their courses of study; and a brief history of each of the four manual training schools that have been established in Minnesota, by their respective heads.

Workingmen's earnings and expenses (45 pages).—Under this head are presented statistical tables which give, by industries and classes of occupations, the number of men reporting, classified by their daily wages, and for each class, the number of months employed, their loss by short hours in winter, and total annual earnings; and for each class, by occupations, the average number of months employed, the average rate of pay per day while employed, and for 312 working days, and the average annual earnings, with a recapitulation, by occupation, for foremen and for journeymen separately. Workingmen's expenses are indicated by quoting the prices of food stuffs, boots and shoes, rents in Minneapolis and Saint Paul, and of fuel in detail.

Mine inspection (5 pages).—This gives a textual account of the condition of mines at Ely, as inspected by the commissioner of the bureau, with a list of accidents occurring during the first six months of 1889.

Labor laws (17 pages).—This gives a compilation of the laws of the state regulating the hours of labor of women and children; providing for licensing employment offices; regulating the hours of labor of railroad employes; relating to liability of railroads for injury to employes; establishing a bureau of labor statistics; providing for the employment of convicts; requiring employers to provide suitable seats for female employes; relating to attachment of wages and to mechanics' liens; providing for the protection of railroad switches, etc.

MISSOURI.

FIRST ANNUAL REPORT, 1879.*—[108 PAGES.]

Introduction (20 pages).—This consists of general text, embracing a copy of the law creating the bureau; an account of its operations and methods of work; copies of blanks sent out and number returned, and brief mention of existing bureaus of labor, with their dates of organization.

Agriculture, its inducements (27 pages).—The information under this head is given chiefly in three statistical tables, 14 pages in length, based on returns from both

* The title page says: For the year ending January 1, 1880.

employers and employes in 103 counties of the state. These tables show, by counties, the number of acres of cleared uncultivated land and its price per acre, the acres of timber land, the rent per acre for small improved farms, the general quality of the land, the principal productions of farms and the nearness to a market or shipping point, the prices of farm stock, the number of men who can find employment as farm laborers, and the average monthly wages of those employed. A textual statement follows, based on returns from county clerks, showing the terms of sale for land, the rates of interest, and the inducements offered to families with small capital to locate on farms in the respective counties of the state.

Wages, earnings, and employment (53 pages).—Under this title are presented a series of statistical tables, based on returns from employers and employes, and classified under five heads, viz: Building trades, Iron industries, Manufactures, Mining, and Miscellaneous. Employers' returns show, by subdivision of the foregoing classifications and by establishments, the number of skilled and unskilled employes, their weekly wages and hours of labor, the time employed, the amount paid for wages, etc., during 1879, and the average reduction of wages since 1872; also, capital, wages, value of product, and cost of production in various industries. Employes' returns show, by similar classes of industries, the weekly and yearly earnings of employes, the yearly expenses, the hours of labor, the number in family, the number of days lost during the year, and the weekly wages of the same classes of labor in 1872. This is followed by a complete recapitulation of both classes of returns.

SECOND ANNUAL REPORT, 1880.*—[284 PAGES.]

Wages and modes of payment (27 pages).—This embraces a mainly textual consideration of wages in the state and their method of payment, company stores, etc. A one-page table gives, by industries, the number of returns and the method of payment of wages, whether in cash, scrip, checks, store orders, etc., and the frequency of payment. The laws of New Jersey and Ohio relating to payment of wages are also quoted.

Earnings and expenses (13 pages).—Under this head are given statistical tables based on returns from 147 families, giving, by individual returns, the occupation of the head of family, number in family, earnings of head of family and of other members, and expenses in detail, with a recapitulation for all families: the percentage of reduction in cost of rent, fuel, groceries, and clothing since 1873 in various localities of the state; and the prices of the necessities of life in foreign countries and in New York, Chicago, and Saint Louis, in 1878.

Rents (18 pages).—Under this head are presented statistical tables, giving for 209 families, their residence, number in family, number of rooms occupied, yearly rent paid, earnings of the family, and percent. of earnings paid for rent; and other tables giving, by localities and families, classified according to size, their income, income per capita, rent paid, and number of rooms occupied. Recapitulations give the tables for all families in each table, and averages for a single family.

Pecuniary condition of workmen (8 pages).—This gives textual extracts from workmen's returns showing their financial condition.

Mining coal, lead, and iron (37 pages).—Under the above heading is given a textual description of the condition of mining and of mines in the state. It includes a description of the visits of the chief of the bureau to various mines, and a general consideration of mine safeguards, of the inspection of mines, of miners' wages and homes, and includes the text of the law regulating the working of mines in the state of Indiana.

Sanitary condition of workshops and factories, and diseases incident to in and out door labor (13 pages).—Comprises a textual consideration of the sanitary condition of work, and of diseases prevalent and incident to the various occupations.

Child labor and the apprentice system (12 pages).—This is a textual consideration of the employment of children in the state, and a short table compiled from returns to

* The title page says: For the year ending January 1, 1881.

the bureau giving, by industries, the number of establishments, and the number of boys and of girls under and over 14 years of age, respectively, employed therein, and their hours of labor.

Fire escapes, accidents by machinery, etc. (11 pages).—This topic embraces a textual and statistical consideration of the need of fire escapes and of safeguards against accidents by machinery. The tables give employers' returns showing the number of stories in each of 49 factories, the number of employes working on each story, and the means of escape in case of fire; employes' returns of the condition of their places of employment as regards fire escapes, and two short tables giving, by occupations, the number of returns and number of employes by length of time in present employment, and the number reporting the introduction of new machinery, with its effect on the number of employes and on wages.

Hours of labor (17 pages).—Under the above heading is given a textual consideration of the hours of labor, extracts from the opinions of employers and employes regarding the proper number of hours for labor; and statistical tables giving, by occupations, the number of returns, the average hours of labor, the number of days worked during the year and the number of days necessary to do the same work at eight hours a day labor, and a table showing, by industries, the number of employers and the number of employes in favor of or against a reduction of hours of labor.

Trades unions, strikes, and arbitration (13 pages).—Under this topic is comprised a textual consideration of trades unions in the state, strikes, and arbitration; and extracts from returns of officers of trades unions concerning their numbers, wages, etc., and of replies of manufacturers regarding arbitration as a means of settling disputes with employes.

Cooperation (7 pages).—Presents a textual consideration of cooperative enterprises in the state and a list of grange stores and cooperative associations incorporated under the general incorporation law of the state.

Convict labor (17 pages).—Embraces mainly a textual consideration of the employment of convicts in the state. Illustrative tables give appropriations for the state penitentiary, from 1883 to 1889; the number of prisoners received and discharged each year, from 1836 to 1878; the number of convicts employed in 1880, by place of employment; the amount of work on ladies' shoes per day in prison and out; the product of shoes and amount paid for labor by a firm in Saint Louis; the prices of saddletrees and price for making the woodwork, for the years 1870, 1875, and 1880; and the price paid for labor in the Saint Louis house of refuge.

Opinions and suggestions by workingmen (8 pages).—This topic embraces extracts from opinions of workingmen regarding a variety of subjects relating to labor.

Farming (34 pages).—This embraces textual extracts from returns of farmers, and statistical tables covering 187 farms, giving, by the number of return and locality, the number of acres in the farm, the assessed value, the number of acres under cultivation, the value of crops and the cost of raising the crops; the number of hired men, their wages per month, and the extent to which farming machinery is being introduced; how often and in what the laborers are paid, whether in cash, order, or produce, and their hours of labor; whether women and children are employed in field work, and if so, the character of such work, their hours of labor, and the opportunities of the children for schooling.

THIRD ANNUAL REPORT, 1881.—[62 PAGES.]

Report (15 pages).—Gives a textual description of strikes occurring during the year in the state; a table showing the highest and lowest wages paid in different occupations in the state, and a brief textual consideration of apprenticeship and insurance societies among workingmen, and a statement of the retail price of coal in Saint Louis in 1881.

Washington university, Saint Louis (36 pages).—Under this heading is given a description of the polytechnic and manual training departments of Washington university,

giving the courses of study pursued each year, the daily programme of studies, and a description of the shops, tools, etc., with general statements of results achieved, the cost to scholars, etc.

Brewing (4 pages).—Consists of a description of the brewing business, showing the number of breweries, the value of products consumed, the value of the product, the number of employes, etc.

Appendix—Reports of county clerks (1 page).—This comprises a statistical table, based on returns from the county clerks, giving the assessed valuation of real estate and personal property, the number of acres of improved and unimproved land, number of miles of finished railroad, amount of bonded and floating debt, amount of tax collected in 1880, etc. These returns are incomplete, only 53 clerks having complied with the request of the bureau.

FOURTH ANNUAL REPORT, 1882.—[152 PAGES.]

Blanks, issued by the bureau, reports of employes and manufacturers and employers, labor and capital, child labor, trades unions, strikes, cooperation, etc. (56 pages).—Short textual considerations are given of the following subjects: Labor and capital, child labor, trades unions, the policy of strikes, cooperation, and employers' and employes' returns on various subjects. These are followed by suggestions and recommendations for remedying some abuses affecting wageworkers.

Table of average wages of wageworkers (5 pages).—A table gives the average daily wages in the different occupations reported in the state.

Tabulated returns from wageworkers (38 pages).—A statistical table has been compiled from wageworkers' returns giving, by individuals, their residence, occupation, conjugal condition, number in family, hours of labor, wages and the frequency of their payment.

Remarks and suggestions of workingmen reported in their own words (10 pages).—A table gives, by individuals, the occupation and a brief statement concerning it by each.

Remarks of employes implicated in strikes, 1882 (5 pages).—A short table giving, by individuals, their occupation, the cause and result of the strike engaged in, and time lost, as reported by each.

Appendix: Factory laws of England (5 pages).—A summary of the English labor law with reference to factories and workshops is here presented.

Pensions and benefit societies in industrial establishments (6 pages).—This is an account of the experiment made by three firms in New York in pensioning their employes.

Reports of county clerks (10 pages).—These consist of a statistical table which shows, by counties reporting, the assessed value of real estate and of personal property, the number of miles of railroad in operation, the amount of taxes collected, the indebtedness, the number of acres of improved land and the average assessed value per acre, and the number of saw and grist mills, etc.

Coal mine inspectors' reports (6 pages).—This gives the reports of mine inspectors of Bates and Ray counties, showing number of mines in operation, number of employes, amount of product, etc.

FIFTH ANNUAL REPORT, 1883.—[157 PAGES.]

Proceedings of the national convention of chiefs of bureaus of labor, 1883 (43 pages).—This is a textual report of the proceedings of the convention held at Columbus, Ohio, September 25 and 26, 1883, including a report by each bureau of its organization, methods of work, etc. The report for Massachusetts is most elaborate; it gives statements of receipts and expenses in detail since its organization, a list of all publications issued, the contents of its reports, and a list of books in the library of the bureau.

Labor laws (23 pages).—This is a compilation of the laws of the state relating to labor.

Mine inspectors' reports, 1882 (45 pages).—Under this title are given textual reports of inspectors of mines as to the condition of mines visited, and statistical tables giving a tabulated statement of mines inspected, showing their condition and capacities, the number of employes, average price of coal, etc., and analyses of various coals.

Railroad statistics (7 pages).—Consist of statistical tables based on returns from five railroad companies, giving, by roads and occupations, the number of employes and their average salaries.

Street railways (12 pages).—This topic comprises statistical tables giving for each road of Saint Louis, except two, the number of employes, by occupations, their average wages, and hours of labor.

Miscellaneous (8 pages).—This embraces tables showing the wages of various individuals, by occupations, average wages, by occupations, and a financial statement of the expenses of the bureau to December 1.

SIXTH ANNUAL REPORT, 1884.—[316 PAGES.]

Proceedings of the second annual convention of labor commissioners, 1884 (19 pages).—Under this head are given brief minutes of the meeting, containing the acts of Maryland and Iowa creating bureaus of labor, and a copy of the memorial of the convention to Congress urging the passage of the bill introduced by Hon. S. S. Cox in regard to the tenth and subsequent censuses.

Pullman, Illinois (24 pages).—Under this title is given a joint report by the chiefs and commissioners of the various bureaus of labor of an investigation of the economic experiment conducted by the Pullman Palace Car Company. The sketch includes its history, methods of construction, tables giving its growth in population, strength of religious denominations, and statistics of causes of deaths, and a brief discussion of wages, rents, expenses of living, health, etc.

The printing industry (6 pages).—This topic embraces statistical tables giving the number of returns received, by locality; the number of employes and their average weekly wages, by occupations; and the number of employes, their hours of labor, and their weekly wages, by occupations, in Ohio, in 1883.

Farm statistics (33 pages).—Consists of an address by Prof. J. W. Sanborn on Labor and statistical problems of the farm, read at the second annual convention of chiefs of bureaus of labor; and statistical tables showing the yield per acre of wheat in various states and foreign countries; a table for each congressional district of the state, showing retail prices of provisions; the supply of laborers and the monthly wages paid them; and a comparison of prices of provisions in and outside of Saint Louis.

Street railways (19 pages).—Under this head are given statistical tables based on reports from street railway companies in all the cities of the state, except Kansas City, giving, in separate tables for each road, the number of employes and their average wages, by occupations, with a general summary, by roads and occupations. A table from the Ohio report of 1883 gives, by employments, the wages and hours of labor of street railway employes in the four principal cities of Ohio.

Railway statistics (4 pages).—Under this topic is given a statistical table showing the number and average wages of employes of the Saint Louis and San Francisco Railroad.

Labor laws (28 pages).—This is a compilation of the laws of the state relating to labor: regulating hours of labor; providing for arbitration of labor disputes; relating to the employment of apprentices; to liens against railroads; to mechanics' liens; providing for the health and safety of employes in coal mines; prohibiting the employment of women and children in coal mines; and providing for payment of wages in legal tender.

Wageworkers (39 pages).—Under this title are embraced statistical tables based on returns from 298 workmen in the various cities of the state, obtained through per-

sonal visits, giving the number of persons employed, the occupations, the size of room in which employed, the number of accidents, the conjugal condition, number in family, average weekly wages, whether paid in cash or otherwise, hours of labor, whether assisted by wife and children, the number of children going to school, whether member of a trades union or a benevolent society, etc. A summary shows, by occupations, the average annual expenses, in detail, of a number of families, with the annual earnings of the head of the family and of others in the family, and whether earnings were greater or less than expenditures.

Manufacturers in the state outside of cities (27 pages).—Here are given statistical tables based on returns from 188 employers, giving the location and business of firms, the number of their employes, the number of children employed, by sex, the average weekly wages paid, hours of labor, time establishment was open during the year, accidents, whether there were strikes, and their causes and results, and a description of the buildings occupied.

Employers' returns (17 pages).—These embrace statistical tables based on returns from 115 employers of wageworkers in Saint Louis, giving the same information as in the preceding table, and in addition thereto, giving the kind of supervision exercised over the employes, the number that have been taught in manual training schools, and whether boys and girls and men and women work in the same room.

Manual training school (14 pages).—Under this topic is given a paper by Prof. C. M. Woodward, of Washington university, Saint Louis, on the Fruits of manual training, first published in the Popular Science Monthly.

Imports and building improvements (7 pages).—Under this topic are presented statistical tables giving, by months, for 1884, and by years, from 1874 to 1884, inclusive, the number and value of brick and frame dwellings erected in Saint Louis, and the value of all commodities in detail imported, during 1884, through the customhouse at Saint Louis.

Unemployed labor of Saint Louis (3 pages).—This is a brief statement of the number of the unemployed of Saint Louis, most of whom are skilled laborers, based on information furnished by the Post-Dispatch, and gathered through its system of carriers.

Child labor (14 pages).—Presents a textual consideration of the evils of child labor, including an abstract of the English factory act of 1878, and a copy of the New Jersey act regulating the employment of children.

Mine inspectors' report 1884 (31 pages).—These are textual reports of the county mine inspectors, a statistical table showing the earnings and expenses in detail of ten coal miners, and a table giving a description and the capacity, etc., of a number of mines of the state.

Convict labor (10 pages).—Under this head is given a textual statement of the result of an investigation made by the New York labor bureau, containing short tables giving expenses and earnings, by years, from 1854 to 1882, inclusive, of the New York state prisons; and the terms and duration of existing contracts for convict labor in Missouri.

SEVENTH ANNUAL REPORT, 1885.—[253 PAGES.]

Strikes (12 pages).—This is a textual account of the various strikes occurring in the state during the year 1885.

Harsh and unnecessary conditions imposed on the workingmen (6 pages).—Harsh and unnecessary conditions imposed on workingmen are briefly considered, illustrated by the rules and regulations of a relief society of a great Saint Louis industry.

Boycotting (2 pages).—Consists of a table taken from Bradstreet's which gives, by industries, the number of boycotts and their results for the years 1884 and 1885.

Arbitration (9 pages).—Under this heading is given a textual consideration of the subject, containing the text of the Ohio act providing for arbitration.

Cooperation (36 pages).—This embraces a general textual consideration, containing an article taken from Age of Steel on cooperation; and extracts and tables taken

from a report by Carroll D. Wright, in the Massachusetts labor report of 1886, on distributive cooperation, giving an account of the progress of cooperation in the principal countries of the old world. The tables give the number and annual sales of cooperative societies in Great Britain; statistics of the Rochdale Equitable Pioneers showing their membership, funds, amount of business done, and their profits, by years, from 1844 to 1867; a table of departments added to their original plan of dealing in staple groceries; their balance sheet for 1884; a comparison of the number of societies in 1872 and 1883 in England and Wales, Scotland and Ireland, and their percentage of increase; the names of cooperative productive societies in Great Britain, their date of establishment, and nature of business done, their yearly sales and profits, and the method of dividing profits; a list of cooperative societies in Paris with the dates of establishment, the amount of capital subscribed and paid up and value of work done; the number of cooperative societies in Germany, by their classes; a list of cooperative societies which have been established since 1876 in the Netherlands; and a table showing the progress of the Arlington Cooperative Association at Lawrence, Massachusetts, by sales, profits, expenses, etc.

Female employes (2 pages).—This consists of a copy of the recent act of the state regarding female employes.

Child labor (1 page).—Takes up one page of text commenting on child labor.

Printing industry (9 pages).—Presents reports from several newspaper establishments, giving their capital, products, average number of employes, the wages and hours of labor, the amount of raw material used; a report of the Saint Louis Typographical Union No. 8; and a few remarks on convict printers.

Wageworkers (16 pages).—Under this heading are given statistical tables based on returns from individual employes, giving their occupations, average wages per day or week, and hours of labor. Also tables showing the comparative wages, by occupations, in Missouri, Ohio, Michigan, Wisconsin, and California; the relative productive capacity of operatives in the cotton, wool, and silk industries in the United States, Great Britain, and Germany, and a comparison of the earnings and cost of living, in detail, of wage-workers in Missouri, Great Britain, and Germany.

Manufactories (14 pages).—Consists of two statistical tables; the one compiled from the tenth census of the United States, giving for Missouri, by mechanical and manufacturing industries, the number of establishments, the amount of capital, the average number of employes (men, women, and children), the amount paid out in wages, and the value of the product, and of the raw material consumed; the other giving returns from a number of firms, showing the name, location, character of business, amount of capital invested, value of yearly products, and of raw materials consumed, the number of employes (men, women, and children), the wages and hours of labor, and number of weeks the establishments were in operation.

Coal mine inspectors' reports (39 pages).—This embraces reports of several county coal mine inspectors, describing each mine separately, a few of which contain short tables giving the quantity of coal produced in 1885, the number of mines, the average price for mining, etc. A general table shows the coal production of Missouri, by mines, the amount of capital invested, the number of miners employed, the total amount paid in wages during the year, the average wages paid per ton for mining, etc.

Lead mines (4 pages).—This gives in textual form returns from one mine operator.

Convict labor (6 pages).—This consists mainly of two statistical tables giving the terms of existing contracts for convict labor in 1885, the number of men contracted for, and the number and percentage of prisoners in the state prison, according to their terms of sentence.

Railroad statistics (11 pages).—Under this topic are given six statistical tables based on reports made by a number of roads, showing, in separate tables for each road, the number of employes, by occupations, and their average wages.

Street railway reports (13 pages).—Statistical tables, based on reports made by eleven roads in Saint Louis, Kansas City, Saint Joseph, Hannibal, and Joplin, give in sepa-

rate tables for each road, by occupations, the number of employes, with average wages and hours of labor.

Fire department of Saint Louis (1 page).—A statistical table showing the number of men employed, wages, etc.

Missouri labor laws (38 pages).—This consists of a compilation of Missouri laws relating to labor; regulating hours of labor; the employment of apprentices; relating to liens against railroads; to mechanics' liens; providing for the health and safety of employes in coal mines; prohibiting the employment of women and children in coal mines; providing for payment of wages in legal tender; requiring employers to provide suitable seats for female employes; providing uniform rules for measuring masonry work, etc.; regulating the weighing of coal; requiring employers to give thirty days' notice before reducing wages; and relating to the inspection of mines.

Statistics of consumption, by Edward Atkinson, read before the third annual convention of commissioners of bureaus of labor (19 pages).—A paper relating mainly to the wastefulness of laborers in the kind of food purchased. Two tables show the food expenditures of an Irish and a French Canadian family.

EIGHTH ANNUAL REPORT, 1886.—[465 PAGES.]

Recommendations (5 pages).

Arbitration (17 pages).—A brief consideration containing copies of the acts of New Jersey, Massachusetts, New York, Ohio, and of England on the subject.

Mines and mining (59 pages).—This embraces reports of the county coal mine inspectors concerning each mine separately, containing, in cases of a few mines, short tables showing the coal production of the mine, the number of men employed, the amount of capital invested, etc. A general table shows the coal production of the United States by years, from 1880 to 1885, and by states and territories. A synopsis of mining laws of the various states is added.

Convict labor (78 pages).—This topic presents statistical tables taken mainly from the report of the bureau of labor statistics of Illinois, concerning convict labor in the United States, and a textual statement, ten pages in length, of the recent action of other states in regard to convict labor. A general table first gives, by states, institutions, and occupations, the prison population of the country, by sex, the number idle, and number at work, by method of employment (contract, piece price, lease, or public account). Recapitulations give the same by states alone and by institutions. Other tables give prices paid for convicts under contract system, by states, and institutions, by industries and institutions, and in 31 penal institutions for 57 branches of industry; also the prison population, whether employed or idle, by sex, according to institutions; the total number employed, by sex and occupations and by skilled or unskilled labor; the occupations of 51,034 convicts before incarceration; reports from penitentiaries giving, by states and location, the number of prisoners, the number of guards and keepers and their wages, the system of employment of convicts and cost to the state, and statements of terms of existing contracts in Missouri institutions.

Profit-sharing (4 pages).—Under this heading is given a brief textual statement of the experiment in profit-sharing, made by the N. O. Nelson Manufacturing Company of Saint Louis.

Statistical tables (57 pages).—Under this topic are presented statistical tables taken from the tenth census of the United States, giving, by states and territories, the total number of persons in each class of occupations, by sex; by sex and age periods; by nationalities; the number engaged in agriculture, by states and territories, by sex and age periods, and nationalities; and similar tables for the special industries of boot and shoe making; clerks, salesmen, and accountants; employes in cotton, silk, and woollen mills; in domestic service; and in mining. A special table also gives the amount paid annually in wages by, and the total gross value of, newspapers and periodicals published in the United States, with percentage of total wages paid, receipts from various sources, number of employes, and number engaged in

editorial work, etc., by states and territories, and classified according to frequency of issue.

Cost of growing tobacco (5 pages).—This gives, textually and statistically, the estimated cost per acre of growing tobacco in Missouri, and profits yielded.

Trades unions (15 pages).—This embraces a textual description of several of the principal labor organizations of the country.

Labor laws of Missouri (39 pages).—A compilation of the state laws relating to labor is here given. It includes copies of the laws regulating hours of labor and the employment of apprentices; relating to liens against railroads and to mechanics' liens; providing for the health and safety of employes in coal mines; prohibiting the employment of women and children in coal mines; providing for payment of wages in legal tender; requiring employers to provide suitable seats for female employes; providing uniform rules for measuring masonry work, etc.; regulating the weighing of coal; requiring employers to give thirty days' notice before reducing wages; and relating to the inspection of mines.

Fourth annual convention of chiefs of bureaus of labor, June, 1886 (56 pages).—This comprises a textual report of the proceedings of the convention and gives a list of labor bureaus; copies of acts affecting the labor bureaus of Massachusetts and New York; a paper by Commissioner Betton, of Kansas, on the Great railroad strikes of the Gould southwestern system; a paper by Charles F. Wingate on the Tenement house problem, containing tables showing the quality and condition of buildings inspected by the New York tenement house commissioner, by percentages, and the total number of deaths, and the number and percentage occurring in tenement houses of New York city, each year, from 1880 to 1884; and a paper by Prof. Alexander Johnston on Common schools and the labor question.

The official history of the great strike of 1886 on the southwestern railroad system (117 pages).—This is a detailed textual history of the above strike, giving copies of communications passing between the parties interested, demands made, propositions submitted, etc., at length. Two short tables show the total number striking, the total number of employes on the system, by classes of occupations, and the number thrown out of work by reason of the strike, and the cost of guarding the company's property during the strike.

NINTH ANNUAL REPORT, 1887.—[295 PAGES.]

Prefatory (4 pages).

Arbitration (7 pages).—This consists of a copy of the act of New York providing for arbitration, with some prefatory remarks.

State mine inspector (7 pages).—This gives a copy of the act creating the office of state mine inspector, and providing for the health and safety of employes in mines.

Manufacturing industries (74 pages).—Under this heading are given a number of statistical tables based on reports made to the bureau by a number of firms engaged in some of the leading manufacturing industries of the state. Separate tables for each industry give the number of employes, classed as skilled and unskilled, by sex, and over or under 14 years of age, and their wages, by occupations; also the amount of capital invested, the hours of labor, time worked, and value of raw material and yearly product. Total results are given in a summary.

Missouri railroad reports (25 pages).—These consist of statistical tables based on reports made by the roads, giving in separate tables for each road, and in consolidated form, by occupations, the number of employes, the average wages, and hours of labor.

Street railway reports (12 pages).—These embrace statistical tables based on reports made by nine companies in Saint Louis, Kansas City, Saint Joseph, and Joplin, giving, in separate tables for each company, the number of employes and the average daily wages and hours of labor in each occupation.

Convict labor (41 pages).—This subject embraces a report of the state committee on labor in regard to convict contract labor, consisting of a brief textual consideration of the question, and of tables giving the date and duration of contracts and the

number of convicts contracted for at the Missouri state penitentiary, February 5, 1887; also for each contract, the cost of plant, amount paid, and an itemized statement of expenses, etc. The same information is given for a number of firms of Saint Louis, engaged in the same business. Other tables give a comparison of the cost of production by free and by convict labor, of clothing, saddletrees, shoes, harness, collars, and saddlery, by detailed items of expense. The statements of different contractors, wardens, and free-labor manufacturers are given in the text. A table, taken from the Second Annual Report of the United States Commissioner of Labor, gives for all the states and territories, by industries, the value of goods made or work done, the number of convicts employed, and the number of free laborers required to perform the same work; and a final table gives the contract prices in 31 penal institutions for 57 special branches of industry, taken from advance sheets of an Illinois report.

State mine inspector's first annual report (80 pages).—This is a textual report, made in two chapters. The first part, on coal mines, gives the extent and location of coal fields, a general consideration of coal miners, their health, safety, etc., a description of individual mines, by counties, their output, etc., and the law relating to weighing coal at mines. There is also included a paper, by Thomas Fowler, on Ventilation of coal mines. The second chapter, on lead, zinc, and iron mines, gives a historical account of lead and zinc mining in the state, the extent and location of the mines, with a description of each mine, by counties. A map of the state, which indicates the location of each mine, accompanies the report.

Summary of coal and mineral output (2 pages).—Consists of two statistical tables which give for coal, and for lead, zinc, and iron mines the total output and its total value, the number of mines and miners, the average annual earnings of coal miners and day laborers, the average pay for coal mining per ton, the amount of powder used, and the average value of coal at the mines.

Labor strikes and lockouts in Missouri (35 pages).—Under this heading are given a number of statistical tables taken from the Third Annual Report of the United States Commissioner of Labor, giving by years and industries, from 1881 to 1886, for the state, a list of the strikes and lockouts, their locality, cause, whether ordered by labor organizations, their duration, result, losses to employers and employes, the number of employes striking, and the average daily wages of all the employes and their weekly working hours, both before and after the strike. A summary of the results of strikes for all years, by industries, is also given.

TENTH ANNUAL REPORT, 1888.—[169 PAGES.]

Introductory (3 pages).

Special report on coal mine explosion at Rich Hill, Missouri, March 29, 1888 (48 pages).—Presents textual reports of an investigation of the cause of the accident, by the commissioner of labor, the state mine inspector, Prof. W. B. Potter, mining engineer, and E. A. Seamon and Robert Craig, experts. These reports include a map of the mine, depositions of survivors, and a report of the amount of powder used during March, 1888, and the names of miners using it, the number of days worked, and the quantity of coal mined, in pounds.

Report of M. L. Wolfe, state mine inspector (43 pages).—This consists of a textual statement concerning the coal mines of the state visited, giving the character of the mine, the number of miners employed, and the output of coal, etc. A table is given showing approximately the output of local coal mines and quarries, by counties, not included in the general report, being mined principally by farmers for local demand during fall and winter.

Report on lead, zinc, and iron mines of Missouri (26 pages).—Under this heading are given a textual history and a geological description of the lead, zinc, and iron mines of the state; a description of crushers and concentrators, with a comparison of the practical value of the different styles of mining pumps; and a report of mining operations in several counties of the state. A table, based on the statements of mine

operators, gives the aggregate output and value of coal, iron, lead, zinc, and copper; and a summary, by counties, shows the number, character, and output of coal mines inspected during the year, the number of employes, the price paid per ton for mining, the number of kegs of powder used, the number of casualties, and the average value of coal per ton at the mine.

The Bevier strikes (12 pages).—Here is presented a brief textual consideration of labor troubles at Bevier among the coal miners from the opening of the mine in 1860 to date of report, 1888, with a history of the mines, etc.

Railroads of Missouri (31 pages).—Under this heading are given statistical tables based on reports of 21 companies, giving for each road separately, and in consolidated form, by occupations, the number of employes, their average annual salaries, and the total amount paid by each road for service. Grand totals are also given of the number of employes, amount paid for labor, and the number of miles of railroad operated in the state.

ELEVENTH ANNUAL REPORT, 1889.—[522 PAGES.]

Coal miners: general conditions (58 pages).—This is a textual consideration of the grievances of coal miners of the state, embracing brief accounts of the objection of miners to the company doctor and to anti-labor-union contracts, and a detailed account of the system existing in the state of paying wages in company checks on stores owned by the companies, and of payment only at the end of each month. It includes letters from commissioners of labor and others interested in the question, a copy of the act proposed to be enacted by the Missouri legislature, compelling weekly payments in cash, copies of correspondence of the bureau relating to payment of wages, and a description of the practices of various companies in the state.

Coal miners: remarks upon statistical tables (20 pages).—These consist of textual comments on the methods of investigation pursued, the results of the tables, and the condition of mining and of the miners; and contains short tables giving the output of coal, and of lead and zinc of the state, for 1888 and 1889; the number of mines considered, for 1888 and 1889; the production of anthracite coal in the United States, each year, from 1882 to 1889; the number and per cent. of miners interviewed, and classified by amount of wages; and the average expenditures, by items, of 130 families whose budgets were obtained.

Coal miners: statistical tables (322 pages).—These are ten statistical tables, based on personal interviews of miners and on the inspection of companies' books.

Table I on coal, table II on lead and zinc, and table III on iron, show, by counties, the character, tonnage, and value of output of mines for the year ending June 30, 1889. Table IV is a summary for the state of the three preceding tables. Table V shows, by counties, the number and nature of accidents occurring in the mines of the state. Table VI gives the number of strikes in coal mines in the state, by counties, for the year ending June 30, 1889; and, separately for each county, the cause of strike, the number of employes made idle, the wages lost by employes, etc. Table VII shows the daily net wages and the annual net earnings, by counties, of a number of employes in coal mines, lead and zinc mines, iron mines, and granite quarries, classified by groups. Table VIII gives, by counties, the work in detail, the wages paid, and the hours of labor of employes in the mines; and table IX gives, by counties, the average daily and monthly wages of miners and other laborers. Table X gives, by counties, the number of coal mining companies owning the homes of employes, and the average rent charged therefor; the prices of commodities, by locations; the earnings and itemized expenditures of the families of 130 miners, given by family budgets and in summarized form, with other information relative to the family.

Obedience to mining laws (4 pages).—This is a brief statement of an investigation showing by names of firms whether the law is obeyed or not.

Appendix: The truck system (34 pages).—This presents a brief outline sketch of the origin of the truck system in England, with an account and a copy of the principal clauses of the law which led to its abolition; extracts of laws of the states of Indiana, Missouri, New Jersey, New York, Ohio, and Pennsylvania, providing for the suppression of the truck system; of Connecticut and Massachusetts, for weekly payment of wages; and of the state, prohibiting the screening of coal before weighing; providing for the health and safety of employes in mines; prohibiting the employment of women and children in mines; relating to the payment of wages in scrip; and to inspection of mines.

Report of the mine inspector, 1889 (71 pages).—This consists of a general textual consideration of the condition of mining in the state, embracing a list of mines in the state with post office address; brief remarks concerning mines inspected; and a number of short tables showing for various mines the kind of power used, the number of employes, the number of days in operation, and the condition of the mine.

TWELFTH ANNUAL REPORT, 1890.—[2 VOLS., 724 PAGES.]

General conditions (46 pages).—Under this head is given a mainly textual consideration of various practices and conditions having an influence on wage-earners in the state. It embraces accounts of a number of instances where wages have been illegally withheld; of the abuses of company stores in connection with withholding wages; of troubles at various establishments; of fraudulent telegraph schools, labor agencies and detective agencies; and of the effects of convict labor upon wages. It includes a copy of a letter addressed to officers of labor organizations by the commissioner relative to the establishment of a workmen's protective union, and a brief account of the Woman's Protective Union of New York city and of the Chicago Bureau of Justice, with a table showing the amount of work done by the last-named organization. There is also given a textual and statistical consideration of Want advertisements. The tables give the number of advertisements in four of the leading newspapers of Saint Louis, Kansas City, and Saint Joseph, of persons desiring help, and of those desiring situations, by occupations and sex, with a comparison between Saint Louis and Kansas City. Under the head of strikes and lockouts is given a brief textual account of four important strikes occurring in the state during the year, with accompanying tables in each case, giving, by name of firms involved, the number of employes engaged in the strike, the character of the strike, the average daily wages of employes before and after the strike, the number of men losing places, the losses to employers and employes, etc.

Factories and workshops (517 pages).—This part gives statistical tables, based on reports made by 271 manufacturing establishments to the bureau and information gained in the inspection of factories, and brief textual comments on the showings of each of the tables. These tables give, by industries, the number of establishments reporting, the number of employes, the amount paid in wages, etc., separately for the state, for Saint Louis and for Kansas City; by industries, cities, and individual establishments, the number of employes of each, the number of weeks in operation for the year ending June 30, 1890, the value of buildings and grounds, of the raw material, and of the product, the amount paid in wages, etc.; the number of employes (men, women, boys, and girls), and the hours of labor in factories and workshops inspected in Saint Louis, Kansas City, and Saint Joseph; also, by cities, industries, and individual establishments inspected, the number of employes (men, women, boys, and girls), their hours of labor, the character of the factory, etc.; a comparison of wages received in different occupations in Saint Louis, Kansas City, and Saint Joseph; the average daily earnings of employes in different industries, as shown by an examination of payrolls; the number of employes, by occupations, classified according to their daily net income; the sex and occupation of a large number of individuals, by cities and industries, the length of the working period considered, the number of days worked, the total amount of earnings, the average daily earnings for each day worked, the average daily net income, and the estimated net earnings in one year;

a summary of the budgets of 438 families, showing for each the size of the family, the occupation of the husband, the earnings of the husband and of the family, and the family expenses, by classes of items; the expenditure of each of 236 families for beer; the average number in a family (adults and minors), the average earnings and expenses, and the condition of the homes of miners and other workmen in Saint Louis, Kansas City, and Crystal City; the average amount expended per individual in each place for each class of items, and the percentage such expense bears to the total expenses. Samples of budgets are given in 156 pages, showing the size and condition of each family, the amount of the earnings, and the yearly expenses in detail.

Report of the mine inspector, 1890 (137 pages).—This report makes volume II of the annual report of the labor commissioner. It contains statistics of the coal, iron, lead, and zinc industries in the state for the year ending June 30, 1890. The tables numbered from I to XI give in detail the character, condition, product, and location of each mine reported, including summaries of the general results of the investigations.

Tables XII and XIII show the number and nature of accidents that occurred in coal mines, and in lead and zinc mines, during the year. This is followed by a brief account of the strikes that occurred among mine employes during the year, and their final settlement; of the opening of new mines, and of the closing of exhausted mines. Lists of coal mine operators, of lead and zinc mine operators, and of iron mine operators, in Missouri, are given, with location and post office address of each operator. The report closes with a record of inspection, by counties.

THIRTEENTH ANNUAL REPORT, 1891.—[2 VOLS., — PAGES.]

Introductory (1 page).

The bi-weekly payment law (4 pages).—Under this head is given a copy of the act requiring the payment of employes of operators of mines at least once in every fifteen days, and prohibiting the withholding of any portion of the wages due them at such payday, and the extent to which the operators have complied with the law. There is also given a brief account of several of the mine operators of the state who have company stores in connection with their mines, and who have been issuing to their employes, in payment of wages, non-transferable checks or due bills on the company stores, with the result of the legal action had against them.

Strikes and boycotts (19 pages).—This gives an account of the strikes and boycotts that occurred in the city of Saint Louis during the year. A table for each of the twelve principal strikes shows, by occupations, the name of establishment, the number of employes striking, the duration of strike, average wages before and after strike, the number of employes losing their positions on account of the strike, the number of new men employed, and the amount of relief given to strikers by labor organizations. The information pertaining to minor strikes and boycotts is given in textual form.

Labor agencies (40 pages).—This part of the report treats of the abuses of labor agencies or employment offices in Saint Louis and Kansas City. It includes the text of the law providing for the creation of free public employment offices in the cities of Cincinnati, Cleveland, Columbus, Dayton, and Toledo, together with the report of each office from June 26, 1890, to January 1, 1891, taken from the Ohio labor report; and tables giving the number of advertisements in seven of the leading newspapers of Saint Louis, Kansas City, and Saint Joseph, of persons desiring help, and of those desiring situations, by occupations and sex, with a comparison between the three cities.

Missouri's surplus (84 pages).—This chapter shows the products of the farm, factory, forest, and mine that were marketed in car load lots from the different counties of the state during the year 1890, and also the commodities marketed by river and driven in during the same period. The information is presented in tabular form, arranged by counties, giving the shipping point, the kind and quantity of the commodity shipped, and the value of surplus commodities.

Manufactories in Missouri (168 pages).—This is an exhibit of the manufacturing industries of the state, the presentation being mainly statistical. It covers 1,849 establishments, employing 63,399 persons. A table, 97 pages in length, arranged by counties, shows the kind of establishment, the number of male and female employes, the number of weeks in operation, the value of the raw material and of the manufactured product, the amount paid for wages and for salaries, the amount paid for taxes and for insurance, and the number of horse power used. For the city of Saint Louis the showing is made by trades or industries, with a recapitulation. This is followed by another table giving for each of fifteen selected industries or trades information similar to that presented in the preceding table, with a recapitulation, by counties, of the 1,819 establishments reported. The chapter closes with a table giving the average daily wages paid, by counties and sex, in brickyards, in cigar factories, in foundries, in flouring mills, in lumber mills, in marble yards, and in wagon and carriage factories.

Factory inspection (152 pages).—Under this heading are given the results of the inspection of 1,297 factories and workshops in the state, of which 1,072 are in the city of Saint Louis. A table 73 pages in length, arranged by counties and separately for the city of Saint Louis, shows in detail the condition of each factory inspected. This is followed by another table giving for Saint Louis workmen the average daily wages of employes in 9 architectural iron works; in 10 awning factories; in 10 bakeries; in 21 beef and pork packing establishments; in 22 box factories; in 38 breweries and malthouses; in 12 brass foundries; in 12 brickyards and tiling works; in 12 candy establishments; in 87 carriage, buggy, and wagon factories; in 26 clothing factories; in 21 cigar factories; in 28 cooper shops; in 15 flour and grist mills; in fourteen foundries; in 44 furniture factories; in 19 harness, saddle, and horse-collar factories; in 18 iron manufactories; in 29 laundries; in 25 machine shops; in 15 marble works; in 25 planing mills; in 79 printing, lithographing, and bookbinding establishments; in 27 shoe factories; in 12 soap factories; in ten tobacco factories; in 8 brush factories; in 9 drug stores; in 5 glass factories; in 8 stamping works; in 9 tanneries; in 7 stove and range foundries; in 7 warehouses; and in 8 paint factories.

Workingwomen (105 pages).—This is a consideration of the condition of such workingwomen as came under the observation of the bureau in the course of the regular factory inspection during the year. The report is mainly textual and embraces the cities of Saint Louis, Kansas City, and Saint Joseph. Tables are given for each city, showing, by occupations, the number of women employed, their conjugal condition, their present age, the age when they began to work, their average annual earnings, the average amount spent for clothing, the average expense for room and board, and the number who support or help to support a family. The text includes a general survey of the home and the workshop conditions, the moral and social surroundings, the educational facilities, and a brief sketch of the various societies and institutions established for the promotion of the welfare of the workingwomen in the state. The chapter closes with an abstract of the superintendent's report of the state industrial home for girls at Chillicothe.

Earnings and expenses of workmen compared (125 pages).—This part presents statistics on the earnings and expenses of workmen employed at the Saint Charles car shops, located at Saint Charles, and the Missouri Pacific car shops, located at Saint Louis. Statements of the earnings and expenses of 73 workmen from each of the above-named places are given in detail, with recapitulations of the family budgets.

Other tables are also given which exhibit the occupations and the individual working time and earnings of 422 employes in Missouri Pacific car works; of 808 employes in Saint Charles car works; and of 962 employes in Saint Louis breweries.

Convict labor (10 pages).—This gives a copy of the report made by the commissioner to the thirty-sixth general assembly, in compliance with a resolution passed by that body, concerning the factories in the state penitentiary. A table shows the amounts

paid to the state by each individual contractor, the items for which such amounts were paid, and the return made to the contractor by the state. Other tables show the average cost to the state per day per convict for food, fuel, clothing, etc., and the average price paid for each prisoner per day in different states where goods manufactured are the same as in the Missouri penitentiary.

Report of the mine inspector, 1891 (— pages).—(This report makes Vol. II of the annual report of the labor commissioner, but at the date of preparation of this abstract it had not been published.)

NEBRASKA.

FIRST BIENNIAL REPORT, 1887 and 1888.—[386 PAGES.]

Introduction and recommendations (19 pages).—This gives a textual consideration of the necessity for a labor bureau; a list of blanks sent out; and a copy of the act creating the bureau.

The rise and progress of bureaus of labor statistics (17 pages).—This topic presents an address by Carroll D. Wright on the history of labor bureaus, and a copy of the act creating a national department of labor.

Labor organizations (15 pages).—This gives textual opinions of various eminent statesmen and writers on the problem of labor, and views of workingmen concerning labor organizations.

Strikes (53 pages).—A textual account of the principal strikes occurring in the state in 1887-'88, is here presented. Also the constitution of the union of the different classes of workmen of Omaha.

Arbitration (43 pages).—This chapter comprises a textual consideration of the question of arbitration, consisting mainly of extracts from the report, by Carroll D. Wright, on industrial arbitration and conciliation, 1881, published by the Massachusetts bureau of labor, and containing a report of the Massachusetts board of arbitration and copies of the acts of the different states and England, providing for arbitration of labor disputes.

Manual training (37 pages).—This part of the report gives a textual consideration of manual and technical training, consisting mainly of extracts from reports, and of opinions of prominent educators.

Compulsory education (6 pages).—Here are given opinions from county superintendents of public instruction concerning the recent state act for compulsory education, pointing out the defects of the law and suggesting the necessary remedies to make it effective.

Farmers' opinions (15 pages).—Answers of farmers in response to inquiries made concerning the causes for the failure of the farmers are here presented, together with their opinions on needed legislation.

Convict labor (124 pages).—This division of the report gives a textual review of the results of various state investigations of convict labor and of recent legislation on the subject. It includes also an account of the formation of the National Anti-Convict Contract Association in 1886; the report of the committee on labor in prisons and reformatories, at the meeting of the National Association of Charities and Corrections in 1884; the report of the committee on interstate prison labor federation, at the meeting of the National Prison Association, and the law of Ohio relating to convicts. One page of short tables gives the number of inmates of the state prison for the years 1884, 1886, 1887, and 1888, the value of the products made by convicts in 1887, and the various occupations of the convicts prior to their incarceration.

Statistics (43 pages).—Under this head miscellaneous statistical tables are given, showing, by counties, the number and total area of farms, their tenure, and estimated value of crops; the comparative value of farms and farm products for the years 1860, 1870, 1880, and 1885; the number of manufacturing establishments, the capital, amount

paid in wages, the number of employes and the value of their products, by counties, for each of the years 1880 and 1885; the number of establishments in 1885, in classified industries, by counties; the highest and lowest wages per diem and the hours of labor in the different industries of the state; reports from different railroads in the state, showing for each the number of employes, their hours of labor, and the highest, lowest, and average wages received, by occupations, in the motive, transportation, and maintenance departments for 1887; the number of accidents to employes while on duty, and the total mileage of railroads in the state; and reports from individual farmers covering their location, age, nationality, number in family, farm production, how farm is held, interest rate on mortgages, the number saving, the school attendance of children, etc., and a summary of general farm statistics.

SECOND BIENNIAL REPORT, 1889 AND 1890.—[956 PAGES.]

Unskilled wageworkers' cost of living (46 pages).—This chapter presents, in tabulated form, the information obtained through personal visits to employes and to employers concerning the cost of living of unskilled wageworkers, the object of the report being to familiarize employers with the general condition of their employes. The first table presented shows for each of twenty-five occupations, in nine different cities and towns in Nebraska, the number of families investigated; the average actual and average nominal money wages; the value of the actual money wages in the necessities of life; and the average possible savings. Table II relates to expenses, and shows, by occupations and place of residence, the average amount paid for rent per month, and for clothing per year; the average quantity and value of the food consumed per month, and of the house-furnishing goods used per year; and the average amount of miscellaneous expenses per month. Table III contains statistics concerning savings and the way in which they are used; and table IV is an itemized account, covering a period of six months, of the earnings and expenses of one family.

Instructions of the bureau of labor (24 pages).—This is a copy of the circular of instructions, accompanying complete home bookkeeping sheets, sent to workingmen throughout the state; together with transcripts of the correspondence with representatives of various labor organizations regarding the course of investigation pursued by the bureau.

Statement of wages and general condition of workingmen (12 pages).—This is a table compiled from blanks issued by the statistician of the state assembly of the Knights of Labor of Nebraska, showing for each of 159 employes his occupation, place of employment, wages per day, place of birth, age, whether owning home or paying rent, etc.; followed by two shorter tables, headed Employers, which show, by classes of occupations, the number of employers and of employes in each, the wages paid, the time operated during the year, the capital invested, and the gross earnings.

Loan and building associations (172 pages).—This is a textual and statistical consideration of building and loan associations in the United States. The greater part of a comprehensive account of these associations, which appeared in the report of the Pennsylvania bureau of labor for 1888, is reproduced. It embraces a brief history of building associations in Pennsylvania; a detailed description of the different kinds of organizations; their methods of operation, with a sample of a constitution and balance sheets; and a table showing for the 337 associations in Pennsylvania investigated, the number of members, the number of shares, the amount of assets, etc. The condition and operations of cooperative building and loan associations in New Jersey are shown by copious extracts from the report of the New Jersey bureau of labor for 1888, including a summary of New Jersey savings bank statistics from 1878 to 1888; a statement for each of twenty-seven banks, showing the date of organization, the number of depositors, etc.; and a geographical classification of the number of building and loan associations in New Jersey at various dates, from 1860 to 1888. The text includes extracts from various state reports and public articles, showing the condition of building associations in other states, and suggestions and

warnings against dangers connected with building associations and particularly with national and interstate associations. A table for Nebraska shows the number of associations in the state, the number of shares, the total amount of assets, etc., and the name, location, and name of secretary of twenty-six building associations. A paper on National building associations, by A. A. Winters, is also presented.

Sarpy county farm mortgages (50 pages).—This is a report of an investigation brought about by a memorial from the Farmers' Alliance to the legislature of Nebraska, claiming that it is becoming rare to find farms which are not mortgaged. Sarpy county, being one of the oldest counties in the state, was selected for the investigation, the results of which are presented in tabular form. The tables show the dates of execution and maturity, the number of acres mortgaged, the amount of the mortgage and the rate of interest for each mortgage given in Sarpy county during the years 1880 to 1889; by subdivisions of the county, the number of acres, and the number mortgaged, and the assessed valuation in 1879 and in 1880; individual reports of mortgagors as to the value of the farm at the time it was mortgaged, its valuation in 1890, together with the assessor's valuation, and the cause for mortgaging; also, a list of foreclosures from 1879 to 1889. An analysis of the foregoing tables shows the area and value of farms in Sarpy county, the area and value of mortgaged farms, the causes of the mortgages, and the rates of interest paid. Other tables give reports from loan and trust companies doing business in the state, showing for each company the date it began making loans in Nebraska, the number and amount of its loans, etc., and the number of foreclosures on improved and unimproved farms in each county.

Manufactures (22 pages).—This chapter contains statistical tables based on returns received from manufacturers throughout the state in answer to blanks sent out by the bureau, giving, by industries, the number of establishments reporting, the amount of their capital, the value of their production for the year ending June 1, 1889, the number of employes, the amount paid in wages, etc.

Strikes (85 pages).—Under this head are given a brief account of several strikes occurring in the state during 1889 and 1890; a list of strikes among cigarmakers in the United States, as reported to the Cigarmakers' International Union at its last session, showing the location and cost of each, and summaries showing their causes and results; and a list of the strikes which occurred in the United States from January 1, 1889, to July 1, 1890, showing for each the occupation, date, location, cause of strike, and the number of strikers.

The eight-hour day (28 pages).—This chapter contains a copy of a letter by president Samuel Gompers, of the American Federation of Labor, written April 15, 1890, to the editor of Bradstreet's, in regard to an eight-hour day; and various newspaper extracts, with textual comments, bearing on the same subject.

The Australian ballot system (260 pages).—In this chapter copies in full are given of the laws of Massachusetts, Michigan, Minnesota, Missouri, Montana, New York, Rhode Island, Tennessee, Washington, Wisconsin, and Wyoming providing for a ballot system based on that in use in Australia.

Proceedings of the seventh annual convention of the chiefs and commissioners of bureaus of labor, 1889 (114 pages).—This is a textual report of the proceedings of the convention, including the remarks of the president, Carroll D. Wright; a list of bureaus of labor statistics, with the name of the chief and the date of establishment of each; reports from each bureau as to the work upon which it was engaged; an address upon Statistical tabulation by machinery, by Charles F. Pidgin, chief clerk of the Massachusetts bureau; a paper by Mrs. Florence Kelley-Wischnewetzky, on Child labor, and the remarks by the different commissioners on the same subject; and various remarks by visitors.

The beet sugar industry (103 pages).—This chapter contains a history of the rise of the beet sugar industry in Europe; an account of its progress in the United States; an account of efforts made in Nebraska for the cultivation of beets and the manu-

facture of sugar therefrom, with a copy of the act for its encouragement; an account of the operations of the Oxnard Beet Sugar Company; a consideration of the conditions for the culture of the beet and its manufacture into sugar, with analyses of samples; and a copy of the business report of the board of directors of the stock sugar factory at Aderstedt, for the years 1888 and 1889, showing receipts and expenses and general results. The tables which are presented show the number of beet sugar factories in France, and the quantity of sugar produced each year from 1826 to 1879; the production of beet sugar in each European country, and the total production of cane sugar each year, from 1880-'81 to 1884-'85; the production of sugar from beets in foreign countries in 1889; the production in California from 1870 to 1873; a list of places in the United States at which beet cultivation has been tried, and the quality of the beets raised; the quality of beets raised at Grand Island, Nebraska; the production of the Western Beet Sugar Company in 1888; the comparative results of feeding cattle with pulps from hydraulic presses and those of the diffusion process on the farm of Simon Legrand; and estimates of the cost of extracting the sugar from beets, and of the expenses for one ton of beets and the product from the same quantity.

Recommendations (4 pages).—This is a statement of recommendations calling the attention of the legislature to various subjects pertaining to the welfare of the people of the state.

United States weights and measures (12 pages).—This is a list of the weights and measures received from the Superintendent of the United States Coast and Geodetic Survey; and tables for converting United States weights and measures from the customary to the metric system and *vice versa*.

NEW JERSEY.

FIRST ANNUAL REPORT, 1878. —[307 PAGES.]

Introduction (3 pages).

Considerations regarding labor, and the education and welfare of laborers; notations in respect to blanks; employment and schooling of children (59 pages).—This chapter comprises a general textual statement of the necessity for obtaining statistics relating to all departments of labor; an account of the work and experience of the bureau; a list of circulars sent out; extracts from replies received; and six tables giving, by industries, the number of employes embraced in the returns, the nativities, the number of men, women, and children, their hours of labor, highest and lowest wages in 1872 and 1877; and for selected returns the number in family, the earnings of head of family and of other members, and the yearly expenses in detail; and the number of children classified according to age periods and sex, showing daily wages, hours of labor, and the number attending schools.

Agricultural development; its relations to local colonization, and the unimproved lands of New Jersey; new and diversified industries essential to general prosperity (61 pages).—Under this heading is presented a textual consideration of the advantages offered by the state to the farmer; of the unimproved lands of the state; of the necessity for new and diversified industries, including a special report on ramie and jute exhibited at the state fair; a paper by Dr. Theophilus T. Price on the Wild lands of Burlington and Ocean counties, and a report by Charles H. Simmerman of his canvass of the five counties forming the southern portion of the state, to ascertain the condition of the laboring classes, of farmers, etc., in that section. Short tables interspersed throughout the text give ten of the most densely populated countries and states of the world with the average population to the square mile; the number and size of farms in the United States and in New Jersey in 1870; the average acreage of farms, and the percentage of unimproved land in farms to total land in farms in the United States and in New Jersey, by decades, for the years 1850, 1860, and 1870; the value of property and the rate of taxation per capita in the

several states; the rates of wages in the various trades in Camden, showing the highest and lowest day wages received during 1873, compared with wages in the same branches in 1878; the number of glassblowers, their wages and hours of labor at various localities; the retail prices of provisions, fuel, etc., at Camden in 1878; and the number of men employed and wages received in an iron foundry at Millville, in 1873 and 1878.

Forestry: rural and village adornment (17 pages).—This gives a general textual consideration of the advantages of, and necessity for, forest culture, including an enumeration of trees adapted to the state.

Cooperation in its workings in Europe and its adaptation to New Jersey (51 pages).—This topic embraces a textual consideration of cooperation in foreign countries and in the United States. A table gives, by years, from 1844 to 1867, the membership, capital, profits, etc., of the Rochdale Pioneers of England.

Savings banks (17 pages).—This comprises a textual and statistical account of the 38 savings banks in the state. The tables give, according to the four classes of occupations described by the words, Day wage, Salary, Professional, and Use or interest of money, the total number of depositors and per cent. of depositors belonging to each class, the total amount deposited and per cent. of amount deposited by each class, the average amount deposited by each depositor of each class, the number of new depositors with amount of deposits in 1878, and per cent. of increase or decrease over deposits of 1877, by institutions, etc. A table also shows the occupations included in each of the above-named classes.

Climate and sanitary condition of New Jersey (12 pages).—This gives an article on the Climatology of southern New Jersey, by John W. Snowden, M. D., including a map showing the district in which intermittent and remittent fevers do not exist, and tables exhibiting the barometric and thermometric readings, the average rainfall and number of rainy days in each month and the mean annual temperature at Vineland, for the ten years 1867 to 1877.

Industries: pottery, flax, hemp, and cranberry (32 pages).—This is a mainly textual consideration of each of the above-named industries. Short tables give shipments of earthenware from Liverpool to America, by years, from 1869 to 1878; importations of pottery, by years, from 1863 to 1878; the number of acres in cranberries, by counties, for 1874, and the estimated crop from the three great cranberry areas of the country, by years, from 1872 to 1877.

Railroad wages (9 pages).—Under this head are given statistical tables based on reports from a number of companies, giving for each the number of employes, the wages, hours of labor, and average time worked during the year, by occupations.

Miscellaneous (17 pages).—This topic comprises a compilation of the laws of New Jersey providing for payment of wages in legal tender; prohibiting the employment of children under 10 years of age in factories; regulating hours of labor and providing for compulsory education of children; an article by Charles F. Thwing on the Lack of trade education as a cause of crime, including a table showing the educational condition of 556 inmates of the eastern penitentiary at Philadelphia; an article by Horace J. Smith on Forest corporations, and statistical tables giving the retail prices of commodities in New Jersey for the years 1858, 1862, 1864, and 1878; the products of the industries of New Jersey, taken from the United States census of 1870, giving the number of establishments, amount of capital, the number of employes and wages paid, etc., by counties; general statistics of population, and the number of persons engaged in various classes of labor, by sex and age periods.

SECOND ANNUAL REPORT, 1879.—[325 PAGES.]

Introduction (15 pages).—A general textual consideration of matters relating to labor is here presented.

State development (21 pages).—Under this heading is given a textual statement of the advantages which the state has to offer to immigrants and settlers by reason of its climate, soil, educational advantages, railroad facilities, building materials, taxation, homestead exemption, etc.

Savings banks (18 pages).—This comprises statistical tables based on returns from circulars made by 14 savings banks of the state, giving by institutions and according to the four classes of occupations described by the words Day wage, Salary, Professional, and Use or interest of money, the total number and amount of deposits, and per cent. of depositors and deposits belonging to each class for the three months, June to August, 1879; the same for deposits under \$300 and for deposits over \$300; the average deposits of each of the four classes with per cent. of depositors and deposits of each class, from June 1 to September 1, for 1878 and 1879, in all banks together; also, by institutions, the number of depositors and amount of deposits in nine savings banks, and the average to each depositor, for the years 1876, 1877, and 1878; and the number of depositors and amount of deposits, etc., and percentage of increase or decrease of deposits for 1878 and 1879.

Collated statistics derived from laborers (57 pages).—This comprises three statistical tables based on returns from individual employes, showing for each his occupation, the earnings of head of family and of others in family, the expenses of family in detail and excess of earnings or expenditures; also, by individuals, the occupation, nationality, term of present employment, conjugal condition, number of changes of employment since 21 years of age, the daily wages and the frequency and mode of payment, the hours of labor, the time lost during the year, and various facts concerning the ownership of homes, or amount of monthly rent paid, the sanitary condition of homes and workshops, the education of children, their age and employment in factories. Textual comments on each table are added; also a copy of the law relating to payment of wages in scrip.

Miscellaneous statistics relative to state industries (58 pages).—This embraces statistical tables based on returns from circulars sent to manufacturers, giving in separate tables for each of a large number of specific industries, by individual establishments, the number of their employes (men, women, and children) and their average daily wages, the total amount paid in wages, the number of native and foreign born employes, the total value of the product, and the number of employes owning real estate, with textual comments on each of the tables. Also a table based on returns from circulars sent to farmers, showing the number of acres in each farm, assessed value, proportionate value of land, proportionate value of buildings, amount of mortgages, value of crops, value of stock and implements, etc.

Industrial development (30 pages).—This is a textual consideration of the cultivation of jute, ramie, flax, and hemp, of silk, and of the preservation of green fodders.

Cooperation (44 pages).—This subject presents a textual consideration of cooperation, mainly devoted to giving the experience of different English associations. Especial space is given to an explanation of the Civil Service Supply Association of London and the Manchester wholesale society. Tables show the number of different kinds of establishments in London in 1877, by twenty-two classified trades, and the progress of the Manchester wholesale society, giving by years, from 1864 to 1877, the number of members, the amount of capital, the value of goods sold, and the net profits.

Trade arbitrations (30 pages).—This gives a textual consideration of arbitration.

Miscellaneous (31 pages).—This consists of copies of the rules of the board of arbitration and conciliation for the north of England manufactured iron trade and of

the rules for the government of the board of conciliation and arbitration for the coal mines of western Pennsylvania; of extracts from a Manual of instruction for the production of silk, by Prof. C. V. Riley, published by the United States Department of Agriculture; a textual account of the rise and progress of silk manufacture in New Jersey; and copies of laws of Ohio providing for the payment of wages in legal tender, and against their payment in scrip, and of laws of New Jersey passed in 1879, relating to mechanics' liens.

THIRD ANNUAL REPORT, 1880.—[380 PAGES.]

Introduction (9 pages).—This gives textual comments on the silk industry; copies of acts relating to labor passed in 1880; a copy of the act to encourage the manufacture of sugar in the state; and a table based on 955 returns of employers, showing the variety of goods manufactured, the number of establishments, the number of employes, and the frequency of payments of wages.

Collated statistics derived from laborers (69 pages).—This comprises nine statistical tables based on returns from individual employes in response to blanks sent out, showing for each workingman in certain special occupations, and for each skilled and unskilled laborer in miscellaneous occupations, his nationality, time of apprenticeship, daily wages, yearly earnings of self and family, hours of labor, time lost during the year, etc.; for selected returns from classified occupations, the earnings and expenses in detail, of families and single men, and the excess of earnings or expenses of each, with recapitulations, by occupations; and the number of children employed in factories, classified by sex and age periods, their hours of labor, and whether employed at night work. Short textual comments on the tables are added.

Miscellaneous statistics (86 pages).—This presents a number of statistical tables relating to specific state industries, with textual comments, giving, by establishments for classified industries, the number of employes (men, women, and children), the average daily wages, the frequency of payment and the movement of wages, the number of employes, native or foreign born, the number owning real estate, the value of products, etc.

Fibre industries (20 pages).—This is a textual account of the fibre industries of the state, including a copy of the act to encourage the production and treatment of fibres by giving a bounty for raising certain plants, and two short tables relating to the growth and production of flax in European countries and in Egypt, showing the acreage and amount of the product, and the number of spindles and power looms in operation in 1879.

Ensilage (18 pages).—This gives copious extracts from the Book of ensilage, or the New dispensation for farmers, by John M. Bailey, of Massachusetts, and quotations from letters of others showing their experiments in the construction of silos and the preservation of green fodders, and the success attending their efforts.

Irrigation (13 pages).—The subject of systematic irrigation is here discussed, and its advantages and modes of application are set forth, including wood cuts showing the various methods that have been contrived for the construction of dams across streams, and diagrams giving the form of the Persian wheel so extensively used for irrigating purposes in eastern countries, and the method employed in France of determining the amount of water delivered upon the land.

Roads (16 pages).—This topic treats of the necessity for having good roads, showing their importance to the prosperity and growth of the state, the present (1880) amount expended upon the roads in 251 townships of the state, and the manner in which roads should be constructed according to the scientific systems of McAdam and Telford.

Keeping one cow (16 pages).—This chapter is designed to form a supplement to the one on ensilage and is based upon a volume issued by the Orange Judd Company, New York, entitled Keeping one cow. It gives extracts from a series of papers

relating to the milk question, and directions concerning food, shelter, the mode of making and applying manure, etc., which are embodied in the book.

Foreign labor reports (76 pages).—This subject comprises a textual and statistical consideration of the relative condition of labor, etc., in Europe and in the United States, based chiefly upon consular reports. The tables give comparative weekly wages paid to the several trades in England, France, Germany, Ireland, Italy, Scotland, Brussels, and Copenhagen, and the rates paid to similar trades in New York and Chicago in 1878; the daily wages paid to the mill operatives of Rouen, France, and Manchester, England; the rates of wages of employes of railroad companies in France and Germany in 1878, and the north of England for 1870 and 1878; the wages paid agricultural laborers in Denmark, France, various localities of Germany, Northumberland and Durham in England, and in various districts of Ireland and Scotland, for various years, from 1873 to 1878; the average earnings of employes in the collieries of northern Wales for 1878; the wages paid workmen in various classes of employment in Belgium, at La Rochelle, Lyons, and Paris in France, the Barmen and Chemnitz districts of Germany, eastern and southern Germany, the Lancashire, Falmouth, Sheffield, Birmingham, Leeds, and London districts of England, and in different localities in Scotland and Ireland for various years, from 1873 to 1878; and the price of groceries, produce, etc., in cities of countries already named, and in New York and Chicago for various years, from 1873 to 1878.

Food (20 pages).—This consists of an article on the above subject by Ezra M. Hunt, M. D., giving the composition and value of various articles of food, with a few suggestions as to modes of preparation, etc.

State loan and building associations (17 pages).—This discusses the subject of building associations in general, giving, in tabular form, a list of the associations doing business in the state, the length of time organized, their location, the number of shares and shareholders, their receipts, expenses, the manner in which the assets are invested, etc.

FOURTH ANNUAL REPORT, 1881.—[321 PAGES.]

Introduction (14 pages).—This gives general textual comments on the result of investigations, the act to encourage the organization and regulate cooperative associations of workmen, remarks concerning cooperation and silk culture, and a table giving, for a number of selected industries in the state, the number of employes (men, women, and children), the wages paid, the capital invested, the value of product, etc.

Collated statistics derived from laborers (82 pages).—Under this heading are given statistical tables, with textual comments, based on returns received from individual workmen representing 219 subdivisions of occupations in which over 11,000 employes were engaged. The tables give, for each laborer in classified industries, his occupation, wages and yearly earnings, hours of labor, methods of work, the quantity produced, the movement of wages, the amount of wages saved, if any, the time lost during the year, etc., with a summary, by industries; the wages and annual earnings of bottlenmakers in various localities of England, their hours of labor, etc.; the average wages of farm hands in the states of New Jersey, New York, Pennsylvania, Massachusetts, and Maryland, in 1881; and the number of operatives employed, their wages, and number of spindles running in the cotton goods industry in various foreign countries and the United States.

Opinions, suggestions, and complaints of employes (23 pages).—This gives the views of workmen on labor topics, such as reducing the hours of labor, payment of wages, cooperation, trades unions, sanitary condition of factories, education, convict labor, child labor, etc.

Suggestions for workmen (32 pages).—This discusses trades unions, labor organizations, and workmen's clubs, and enumerates the causes which have led to their establishment and the objects sought to be accomplished by them, etc., including

extracts from the reports of workingmen's clubs in various parts of England and Wales.

Specific state industries (31 pages).—This part of the report is divided into four chapters, namely: Silk industry, Hat industry, Pottery industry, and Brick, glass, and clay industries. Statistical tables based on the returns of 105 firms engaged in the silk industry, of 82 firms manufacturing hats, of 38 firms engaged in the pottery industry, and of 72 firms engaged in mining clay and sand or in manufacturing their products, brick, drain pipe, and glass, are given, showing for each firm in each industry, its location, production, amount of capital invested, the number of employes (men, women, and children), their wages and frequency of payment, etc.; and, in addition for the silk industry, the imports of raw silk at New York and San Francisco and of silk manufactures by articles entered at New York, by years, from 1875 to 1881; the total value of raw and of manufactured silk imported into the United States, by years, from 1871 to 1881; the value of silk manufactured in the United States, by articles, in 1880; the relation the value of the home production bears to the imports of raw silk for various years, from 1850 to 1880; the number of looms and spindles in operation in the United States in 1880, and the number of establishments and employes in the silk industry in the United States, and the total amount paid in wages in 1860, 1870, 1875, and 1880. Textual comments on the tables in each chapter are added.

Statistics of the population, productions of agriculture and manufactures of the state of New Jersey, from the United States census returns, 1880 (61 pages).—This comprises statistical tables giving the population of New Jersey by decades, from 1790 to 1880, by sex, color, and nativity in 1880, and by counties in 1880; the productions of agriculture by counties; the number of manufacturing establishments in the state, by industries, and separately for each county, their capital, number of employes, males, females, and children, the value of their product, etc.; the number of manufacturing establishments in the state, by decades, from 1850 to 1880, with the total amount paid in wages, etc.; the number of manufactories of agricultural implements, of lumber and sawmills, and of meat packing establishments, the number of employes, their daily wages and yearly earnings, the amount of capital invested, the quantity and value of the product, etc.

Iron and steel production in New Jersey (13 pages).—This gives a historical account of the iron and steel production in New Jersey, from the tenth United States census. A table gives, by kind of business done, the number of iron and steel establishments in the state in 1880, the number of employes, the wages paid, the hours of labor, the length of time in active operation during the year, the amount of capital invested, the total value of all materials, the value of the products, etc., for the state as a whole, and separately by counties.

The dairy interest (25 pages).—This treats of the dairy interest of the state, and points out its value and importance. Illustrative tables show the number of milch cows, the production of butter and cheese, and the number of gallons of milk sold, in 1870 and 1880; the number and location of dairy establishments in the state, the number of employes and their wages, the capital invested, the quantity and value of the different kinds of product, etc.; a price list of apparatus commonly used in a well arranged creamery designed for 4,000 quarts of milk per day, including a diagram for the construction of such a building; and the quantity of milk carried by the railroads of the state, for the year ending October 31, 1881.

The state bounty (12 pages).—Under this topic will be found a short textual consideration of the cultivation of fibrous plants and of sorghum in the state.

FIFTH ANNUAL REPORT, 1882.—[451 PAGES.]

Introduction (6 pages).—The introductory remarks embrace general textual comments on the results of investigations, and a statement of results obtained. There is also included a table comparing the manufacturing, mining, and mechanical indus-

tries of the state with those of the United States, by decades, for the years 1860, 1870, and 1880, giving the amount of capital invested, the value of the products, the number of employes, the total amount paid in wages, and the percentage of gain for each decade over the other.

The earnings of wageworkers (75 pages).—The information under this heading is presented in four chapters. The first chapter gives remarks of employes on topics of interest to wageworkers, and tables based on returns received from workmen, showing by establishments, for each of a number of selected industries, the location, the number of employes (men, women, and children), the occupations, wages and yearly earnings, hours of labor, etc. The second chapter gives the rates of wages of farm laborers in the United States, from the special report of the United States Department of Agriculture for May, 1882. It contains tables which present the average monthly rate of wages of farm laborers, the daily rate of wages of agricultural laborers in harvest, and the average daily rate of wages paid to laborers in transient service, with and without board, in the several states and territories, in 1866, 1869, 1875, 1879, and 1882. The third chapter gives comparative rates of wages in the United States and other countries. Several tables, interspersed throughout the text, show the wages of employes in woollen mills and in cotton mills in Maine, New Hampshire, and Massachusetts in 1880; the wages paid employes at tanneries in New York and Pennsylvania in 1880; the wages of employes in iron rolling mills at Pittsburgh, and at Stratfordshire and Warrington, England, in 1878; the wages paid workmen about blast furnaces at Pittsburgh and at Cumberland and Cleveland, England, in 1879; the cost of producing a ton of pig iron in the Cumberland district, England, and in the Pittsburgh district; the schedule of wages paid in the manufacture of thread in the United States and in Scotland; the rate of wages paid per week in the manufacture of silk in the United States and in various foreign countries; and a comparison of the earnings and cost of living per week of a Lancashire weaver and family, and a Massachusetts weaver and family, each family being supposed to consume the same quantity and quality of food. The fourth chapter consists of an extract from an article in the Princeton Review, for July, 1882, entitled Wages and prices, by Carroll D. Wright, chief of the Massachusetts bureau of labor statistics. It includes a table showing the average retail prices of groceries, provisions, fuel, etc., at various localities in the eastern part of the United States and in Canada for 1881-'82.

Suggestions in behalf of workmen (28 pages).—This discusses, in separate chapters, the contract system, the truck system, the factories act of England of 1878, the employers' liability act of England of 1880, the society of the Familistere at Guise, France, and the Workingmen's Club at Millville, New Jersey, with an illustration of the building occupied by the club.

The building and loan associations of New Jersey (27 pages).—This embraces a textual consideration of the building and loan associations of the state, reports of secretaries of a number of such associations showing the amount of business transacted during the year, and statistical tables giving the name and location of each association, the date of organization, the number of shares and shareholders, the total net assets, the manner in which the assets are invested, etc.

Carp and carp culture (42 pages).—This consists of a reprint of a paper on Carp and carp culture, by Milton P. Pierce, Assistant United States Fish Commissioner, giving the history of fish culture, the several varieties of carp, with illustrations, a consideration of practical carp culture, with illustrations of ponds and directions for their construction, location, etc.

The state bounty (42 pages).—This discusses the cultivation of fibrous plants and of sorghum and gives the rate of bounty as authorized under the law. It includes a number of tables giving the quantity and value of importations of fibers into the United States in 1882; the importation of manilla hemp, by years, from 1863 to 1882, of sisal hemp, Calcutta jute, and jute butts and rejections, by years, from 1873 to 1882; the

amount disbursed and to whom paid, for bounty upon flax straw and flax fibre, etc.; the importations of sugar for the years 1881 and 1882; the production of sugar and molasses of the Rio Grande company of the state in 1882, and the production, consumption, and exportation of sugar in Cuba during each year from 1871 to 1880, inclusive.

The oyster interests of New Jersey (134 pages).—This gives a comprehensive account of the history, embryology, life, anatomy, and culture of the oyster, the growth of its shell, its food, enemies, etc. It includes two tables showing the number of vessels and fishermen employed in the oyster industry, the location of the beds, the amount of capital invested, the quantity and value of the product, and the shipments to New York, Philadelphia, and other points from stations in the state during the year. A number of plates are also given illustrating the growth of the oyster, and a glossary of terms used by oystermen.

Specific state industries (26 pages).—Under this topic will be found a mainly statistical consideration of iron mines, blast furnaces, paper mills, breweries, and the dairy interest of the state. The tables give the output of the iron mines for various years, from 1790 to 1882; for each of fifty-four iron mines, for each of ten establishments operating sixteen blast furnaces, and for each of thirty-one paper mills, the length of time in operation, the number of employes, the wages, hours of labor, the value of the product, etc., in 1882; the number of paper mills in the state, by counties, in 1880, showing the number of employes (men, women, and children), the wages, the amount of capital invested, the materials consumed, and the quantity and value of the products; the quantity of beer brewed in various European countries in 1880, with the consumption per capita of population; for each of forty-eight breweries in the state, the number of employes, the average daily wages and frequency of payment, the hours of labor, the amount of capital invested, the value of materials, the value of products, etc., in 1882; the number of breweries in the state, the capital, etc., by decades, from 1850 to 1880; the sale of malt liquor in the several states and territories each year, from 1875 to 1882, and in the principal cities of the country each year, from 1877 to 1882; the quantity of milk transported over the railroads of the state each month during the year, the localities from which shipments were made, and the points where received; and for twenty creameries, the number of employes, the yearly earnings, the capital invested, the value of the products, etc.

Statistics of the wealth and industry of New Jersey, from the returns of the tenth United States census, 1880 (28 pages).—This comprises a number of statistical tables giving for each specified industry the number of establishments, the number of employes (men, women, and children), the aggregate wages, the capital invested, the value of materials, the value of products, etc.; the same information, by counties, for a number of selected industries; the number of vessels and persons employed in the fishery interests of the state, the amount of capital invested, and the quantity and value of the product; the productions of agriculture, by counties, in 1880, and for each decade, from 1850 to 1880; the number and value of farms, the number of acres of improved and unimproved land, the value of farming implements and machinery, the value of live stock, orchard products, etc., and the number of persons engaged in each of the principal occupations in the state.

Jail statistics (27 pages).—This contains a copy of the act providing for the record and report of jail statistics; an abstract of the vice-president's report for New Jersey on the Criminal classes of New Jersey, made to the Association for the Advancement of Women, held at Portland, Maine, October, 1882; and statistical tables compiled from reports made by twenty-three jails of the state, giving the number of commitments of men, women, and children in each county; the same by age periods, by term of sentence, etc.; the nativity and occupation of prisoners, and the average daily cost of keeping each prisoner, by counties; and a general statement of the Hudson county penitentiary, showing the cost of maintaining the institution each month during the year ending April 30, 1882, the number of employes and inmates, etc.

SIXTH ANNUAL REPORT, 1883.—[490 PAGES.]

Introduction (16 pages).—The introductory remarks consist of a general textual consideration of cooperation and manual training, and a statistical summary of collated statistics, giving, by occupations, returns from employes showing the number reporting, their earnings, the earnings of other members of the family, the total cost of living, the number saving, and time lost; and for a number of industries, classified by occupations, the number of employes, their average earnings, and number of days lost during the year.

Information concerning wageworkers (109 pages).—This subject comprises three statistical tables, being collated statistics from individual employes, showing, separately for each industry, the location and occupation of each individual, his hours of labor, wages, earnings of self and family, the number of days lost, the cost of living, in detail, the number in family, and the accumulation of savings; collated statistics from various establishments showing, separately for each industry and for each establishment, the number of employes (men, women, and children), the earnings of the same, by occupations, their hours of labor, the movement of wages, and time not in operation; and collated statistics showing, for individuals, by occupations, separately for each industry, the prices received by piece workers, and the quantity produced daily or weekly; also, the ages at which workingmen begin to decline and become incapacitated for active work, as well as the diseases peculiar to the various trades. Also, number of families sharing same house.

Suggestions in behalf of workingmen (58 pages).—The information under this heading is given in three chapters of text, consisting of remarks and suggestions by individual workingmen and others relative to the general condition of employes in various industrial establishments in the state; of a general consideration of strikes, their causes and prevention, including a table giving the trade, location, date, cause, duration, and result of 135 strikes that have occurred in the state; and of an account, with illustrations, of the Workingmen's Institute, at Millville.

Specific state industries: the silk industry; clay and clay products; glass (147 pages).—This consists of three chapters, one for each industry. The first gives a textual and statistical account of the production of silk throughout the world generally, and in New Jersey in particular, including tables showing the silk production by the different countries; the number of employes (men, women, and children), the value of the product and the total wages paid for silk production in New Jersey, for the years 1879, 1880, 1881, and 1882, and in detail, by individual establishments, for 1883; the rates of wages per week in silk manufactories in the United States and in various European countries, by occupations and sex; the imports of raw silk at New York and San Francisco, from 1877 to 1883, and of manufactured silk articles at New York, from 1876 to 1883; the production of silk manufactures in the United States in 1882, by articles; the total value of imported silk, raw and manufactured, separately, by years, from 1871 to 1883; and imports of raw silk at New York and San Francisco, classified by countries of export, for each month during 1883. This chapter also includes a summary of the special report of the tenth census on silk culture, by William C. Wyckoff, giving a full account of silkworms, methods of culture and raising, with illustrations and instructions as to methods of reeling, etc. The second chapter gives a brief textual account of the history of pottery manufacture, the chemical composition of a large number of clays, an account of the different pottery and clay works in the state, and details of manufacture of different clay products, with illustrations; and tables showing the production of manufactures of clay in 1883, the number of employes (men, women, and children), the average daily wages, the capital invested, and the value of the products. The third chapter gives a textual account of the history of glassmaking, and of its growth in the United States and in New Jersey, the methods of production of different kinds of glass, with illustrations, and the proportion of materials used in each;

and a few tables giving, by occupations, the wages of glassworkers in the state and in Germany, Great Britain, and Italy; a list of glass factories in New Jersey, and imports of glass and glassware, by articles, for the years 1881, 1882, and 1883.

State bounty (11 pages).—This is a brief textual and statistical account of the result of the policy of the state in granting bounties for the production of fibres and of sugar from sorghum. The tables show the disbursement of bounties for flax fibre, and the result of field and laboratory experiments with sorghum, for the season of 1883.

Jail statistics (42 pages).—This gives a textual and statistical consideration of crime in the state, based on reports made by penal institutions. The tables give for each county the number of inmates, adults or minors, the sex, the cost of maintenance, the number of crimes of prisoners in local penal institutions, classified by age periods and general nativity and by principal crimes; the number committed, sentenced, and discharged in each county and by each court; and for each county, the terms of sentences, the education of the convicts, the religious persuasion, habits, social conditions, former occupations, etc.

Pauperism (74 pages).—This embraces a textual consideration of the general problem of pauperism, and a textual and statistical account of pauperism in New Jersey, including a copy of the poor law. A textual summary, by counties, gives the cost of maintenance of almshouses in each, the average number of inmates, etc. The tables give; by minor civil divisions, the population in 1880, the amount expended in poor relief, the number relieved, men, women, and children; the number of inmates of poorhouses, adults or minors, their sex, whether native or foreign born, their conjugal condition, the cost of maintenance, etc.; expenditures of the state for poor relief, for 1882 and 1883; and separately for Camden county, by wards and townships, its population, number of saloons, arrests, and deaths, with the relative number, per thousand of population of each, and amount of poor relief per thousand of population; also the number of paupers supported in Massachusetts, for the years 1864, 1874, and 1882; the outlay for poor relief in various institutions in New York city for 1880, 1881, and 1882, and in Brooklyn each year, from 1879 to 1882.

Labor legislation (14 pages).—This consists of copies of acts passed in 1883, authorizing the formation of cooperative societies; limiting the age of children employed in factories and authorizing the appointment of an inspector to enforce the same; regulating the hours of labor of children; and abolishing the convict contract system.

SEVENTH ANNUAL REPORT, 1884.—[401 PAGES.]

Introduction (13 pages).—This embraces general textual remarks, copies of the laws establishing the state bureau of labor and the United States Bureau of Labor, and a table giving a summary of collated statistics showing, by occupations, the number of individuals reporting, the wages, hours of labor, the total cost of living, the number in family, the savings made, etc.

Information concerning wage-earners (233 pages).—This comprises three statistical tables, being collated statistics from individual employes, showing, separately for each industry, the location and occupation of each individual, his hours of labor, wages, earnings of self and family, number in family, time lost, total cost of living, accumulation of savings, etc.; collated statistics from various establishments, showing separately for each industry, classified by establishments and occupations, the number of employes (men, women, and children) in each, the earnings and hours of labor, the movement of wages, and time not in operation, etc.; and collated statistics, showing for individuals, by occupations, separately for each industry, the prices received by piece workers, the quantity produced daily or weekly, the ages at which workmen begin to decline and become incapacitated for active work, as well as the diseases peculiar to the various trades. Also, number of families sharing same house.

Suggestions in behalf of workingmen (62 pages).—This subject presents the condition of wage-earners, including remarks and suggestions by individual workingmen and others relating to the general condition of employes in the various industrial establishments in the state; a consideration of industrial education, including a copy of the act providing for the establishment of industrial schools; a discussion of the importation of foreign labor under contract, with a table from Wages and trade, by J. Schoenhof, giving the number of operatives employed and pounds of raw materials consumed in textile establishments in the United States, Great Britain, and Germany, and the productive capacity per operative, taking 100 as the unit of the United States, in order to show the relative efficiency of the workingmen; and an article on Immigration and the labor problem, by A. S. Meyrick.

An attractive industrial experiment (27 pages).—Under this head is given a joint report made by the chiefs and commissioners of the various bureaus of labor of an investigation of the economic experiment conducted by the Pullman Palace Car Company at Pullman, Illinois. The sketch includes its history, the methods of construction, illustrations of buildings, a brief discussion of wages, rents, expenses of living, health, etc., and a table giving its growth in population.

The building and loan associations of New Jersey (35 pages).—This gives a textual and statistical account of the building and loan associations of the state. The tables give for each of 121 associations reporting, the location, name of its secretary, date of organization, the number of shares and shareholders, its assets and how invested, its liabilities, etc., and a recapitulation, by counties, showing the number of societies in each, their assets, and net profits. The text includes extracts from reports of the different associations.

Sugar from sorghum (13 pages).—This gives a brief history of the Rio Grande Company, in Cape May county, and of its attempt to manufacture sugar from sorghum. A table gives the results of experiments made by Prof. George H. Cook, director of the New Jersey experiment station, and designed to aid the farmers of the state in determining the right kind of soil and the proper fertilizers to be used in the cultivation of sorghum.

EIGHTH ANNUAL REPORT, 1885.—[458 PAGES.]

Introduction (12 pages).—This contains textual remarks concerning profit-sharing, including a copy of an address by Mr. Godin, who founded the Familistere, and statistical tables giving the population of the state, the number of dwellings and families by counties, the number of persons to a dwelling, etc., and a summary of collated statistics showing, by industries and occupations, the number of employes (men, women and children), their wages, their hours of labor, and the number of days unemployed, etc.

Information concerning wage-earners (137 pages).—The information under this heading is given in three tables, being collated statistics from individual employes, showing, separately for each industry, the location, nativity, and occupation of each individual, his hours of labor, wages, earnings of self and family, the number in family, the number of days lost, and the total cost of living; collated statistics from various establishments, showing, separately for each industry, by establishments and occupations, the number of employes (men, women, and children), the earnings, hours of labor, the movement of wages, and the length of time the establishment was not in operation, etc.; and collated statistics, showing for individuals, by occupations, separately for each industry, the prices received by piece workers, the quantity produced daily or weekly, the ages at which workingmen begin to decline and become incapacitated for active work, as well as the diseases peculiar to the various trades.

The condition of wage-earners; the cost of living (45 pages).—This topic presents a statistical consideration of the cost of living, based on budgets collected by the

bureau, budgets taken from Massachusetts reports, and English and German budgets from foreign authorities. The tables give, separately for each industry, 319 budgets of families in New Jersey for 1884-'85, 19 budgets of families in Massachusetts for 1884, and 16 budgets of families in Great Britain for 1883, showing the residence, nativity, and occupation of the head of each family, the number in family, the cost of living, by items, and the earnings of the head and of other members of the family; and the average income, number in family, and total expenses of a large number of families in Germany, by location and occupation; also summaries of the New Jersey budgets, showing, by occupations, the number reporting and the percentage expenditure and income, by classes of items, the yearly rent paid, savings, the number of families in a house and the number of rooms per family; the average and percentage income of the head and other members of the family, and the total expenditure and average number in a family (adults and children), of families in New Jersey, Illinois, Massachusetts, Great Britain, and Germany; the average and percentage expenditure, by classes of items, in each country; and the average expenditure for rent in New Jersey, by occupations. The text considers Dr. Engel's law of expenditure, including an illustrative table.

The condition of wage-earners; the chemistry and economy of foods (30 pages).—This is a reprint of a paper read by Prof. W. O. Atwater, at the third annual session of the national convention of chiefs of the bureaus of labor statistics in 1885. In addition to text, it contains tables showing the weight of the different compounds in the human body, the percentage of different matters in beef, the percentage composition of other foods, and the per cent. of indigestible matter in various food materials; also the comparative cost of protein in food materials, the amount of nutrients, standards of protein, fats, and carbohydrates for daily rations for different ages, assumed by Prof. Voit, of Munich; and bills of fare, some for a fixed cost, etc.

The condition of wage-earners; what the workmen think (15 pages).—This embraces textual remarks and suggestions made by workmen on topics of interest to laborers.

Suggestions in behalf of workmen (58 pages).—This consists of two chapters concerning the development of the cooperative movement; and the law and the laborer, and progressive labor legislation in New Jersey. The first gives a textual and statistical account of cooperation in Germany, England, and more briefly of the movement in other countries, and in the United States. Tables show the average losses of members of peoples' savings banks in Germany each year, from 1872 to 1884; the average value of shares, and the average amount of borrowed money per member, each year, from 1876 to 1884; the number of peoples' savings banks in Germany, each year, from 1859 to 1884, the amount of their capital, their membership, etc.; the percentage of membership, by occupations, in peoples' savings banks and consumers' unions in Germany, for 1883 and 1884. For England, tables give the number of members, the amount of business done, etc., of the Rochdale Pioneers, from 1844 to 1867, and their financial report for 1844; the number of cooperative societies, the number of members, etc., in England and Wales, Scotland and Ireland, in 1883; and a list of British cooperative productive societies, with the date of the establishment of each, the amount of business done, the profits realized, etc.; also the number of members, the amount of business done, etc., each year, from 1882 to 1884, of a cooperative grocery store in New Jersey; and a statement of the membership, profits, expenses, etc., of the Trenton Cooperative Society, 1885, of the Kingsdale Cooperative Association, and of the Fruit Grower's Union and Cooperative Society. The second chapter gives a historical account of labor legislation in New Jersey, embracing a history of the labor movement in the state.

The iron industry (38 pages).—This includes a textual and statistical consideration, in four chapters, of the iron and zinc mines, of anthracite blast furnaces, of foundries, sheet iron and steel works, and of general manufactories of iron of the state. Tables give the production of iron mines of New Jersey for various years, from

1790 to 1885; the importation of iron, from 1879 to 1885; the wages paid miners of the Glendon Iron Company, from 1858 to 1886; the price of flour, from 1862 to 1884; and returns from forty iron and zinc mines of the state, giving the amount of their output, the number of employes (men and boys), the hours of labor, average wages, etc.; for the anthracite blast furnaces, the production of pig iron in the state, each year, from 1874 to 1885; the prices of pig iron, from 1870 to 1885; including an inserted diagram representing graphically the price and production of pig iron and of steel rails in the United States, from 1872 to 1885; the number and capacity of blast furnaces of the country, by states and districts; the number of blast furnaces, by kind of fuel used, from 1873 to 1885; the capacity of all furnaces, from 1877 to 1885; the production of steel rails in the world, by countries, in 1883; the average calculated cost of production of pig iron; the actual cost of production at four furnaces, by items; returns from six blast furnaces of the state, giving the average wages paid, the number of employes, etc., and similar returns for a number of iron foundries, sheet iron and steel works of the state, and for a large number of manufacturing of iron and steel; the price of rolled bar iron, from 1844 to 1885, and of cut nails, from 1860 to 1884; the output, the total amount paid for wages, the number of employes and their average earnings for a large iron establishment of the state, from 1872 to 1884; and an inserted diagram representing changes in selling prices of iron and in rates of wages paid by the New Jersey Steel and Iron Company.

The sugar industry (24 pages).—This gives a textual and statistical history of the Rio Grande sugar plantation for raising sorghum and manufacturing sugar, with a description of the methods of cultivation and manufacture. Tables give the beet sugar production in different European countries for 1885 and 1886; the bounty paid for raising sorghum in the state, from 1881 to 1885; a weekly record of the growth of sorghum cane at the Rio Grande plantation under the effects of different fertilizers, and the sugar product from each; and a table showing the production from 100 pounds of cane.

Appendix: Labor legislation of New Jersey (74 pages).—This is a compilation of the laws of the state, establishing a bureau of labor statistics; providing for arbitration of labor disputes; for legal holidays; regulating hours of labor; hours of labor of women and children; limiting the age of children employed in factories; regulating payment of wages under special contracts; requiring accidents in factories, etc., to be reported; providing for the health and safety of employes in factories; regulating the hours of labor of children; providing for safeguards against fires in hotels and other buildings; requiring fire escapes for hotels and other buildings; relating to depth and construction of foundation walls of buildings, etc.; to seats for street car drivers; to seats for female employes in stores, etc.; securing to employes the payment of wages; providing for payment of wages in legal tender; relating to the wages of married women; to liens on vessels; to mechanics' liens; exempting telegraph employes from militia and jury services; providing for exemption from execution and attachment; relating to the attachment of wages; to the employment of apprentices; to relief of the poor; establishing the state reform school; providing for the education of children; for industrial education; for the protection of children; limiting the age of children employed in mines; prohibiting the sale of liquors to minors under 18 years; gaming by minors under 18 years; the sale of fire-arms to children under 15 years; the sale of cigarettes to children under 16 years; providing for the establishment of orphan asylums and homes for children; providing for public libraries; relating to cooperative societies; to building and loan associations; to convict labor; abolishing the convict contract system; relating to persons combining and encouraging others to combine; providing for the protection of passengers on railroads; regulating telegraph companies; providing for suppression of Sunday labor; for punishment for embezzlement by servants; relating to the imprisonment of witnesses; regulating the sale of liquors to servants; and providing for the safety of travellers.

NINTH ANNUAL REPORT, 1886.—[457 PAGES.]

Introduction (2 pages).

Earnings, cost of living, and prices (177 pages).—This subject embraces five statistical tables, being collated statistics from individual employes, showing, by industries, the occupation, nativity, hours of labor, time lost, earnings of self and family, and total cost of living; workingmen's budgets, showing their occupation, residence, nativity, earnings of head of family, as well as the total income of the family, and the total outlay of the family for rent, food, clothing, light and fuel, society dues, life insurance, and sundries; workingmen's budgets continued, showing, separately for each industry, the weekly quantity and cost of food consumed per family, by items; returns from retail dealers showing the range of prices of commodities in the cities of the state during 1886; and collated statistics from various industrial establishments, showing, separately for each industry, by occupations, the number of employes (men, women, and children), the earnings and hours of labor, the movement of wages, the time lost, and prices paid for piece work. A summary of the last table gives the facts by industries alone. Textual comments on results, with short illustrative tables, are also given. These tables give a summary of the workingmen's budgets, by occupations; the relative percentage of expenditures, by occupations; the per cent. owning houses or renting, and the average number of rooms to a house and of families to a house; a statement of Dr. Engel's law with his table, and a calculation of bills of fare for different industry workers on the basis of the estimated relative quantities of potential energy in nutrients required by persons of different classes, as arrived at by Dr. Engel, and by Carroll D. Wright in the report of the Massachusetts bureau of labor for 1886; and Edward Atkinson's tables giving the average expenditure for different foods in a New England boarding house, and the probable cost of food and drink in the United States, by articles, for one year; the average cost of rations of 6,256 inmates of charitable institutions and reformatories of Ohio in 1885; the average quantity and cost of different items of food at 25 cents per man daily, based on analyses of seven dietaries for 191 persons in Massachusetts; the actual living expenses in detail of two mill operatives at Crefeld, Germany, and at Bordeaux, France, from consular reports; the relative prices of different foods in 1878 and 1886, taken from the Philadelphia Press; the prices of various commodities at different dates, from 1851 to 1880, from the United States census of 1880; and a summary of the table giving collated statistics from industrial establishments, showing, for each occupation, the number reporting, the average length of time employed, and the average wages, earnings, and hours of labor.

Remarks and suggestions by workingmen (44 pages).—This consists of extracts from remarks made by workingmen concerning their condition, and concerning local strikes and labor troubles, reduction of the hours of labor, etc.

Phases of the labor question (27 pages).—This includes two chapters, one treating textually of a shorter work day, embracing, besides general text, replies received from workingmen and tables showing the displacement of muscular labor by machinery in a single establishment, and the difference in the production of glass vials under different conditions as to the length of the working day; and the other presenting a general consideration of common schools and the labor question, in the form of a reprint of the paper read by Prof. Alexander Johnson, of Princeton college, before the national convention of chiefs of bureaus of labor in 1886.

The building and loan associations of New Jersey (64 pages).—This part of the report gives a textual and statistical consideration of the building and loan associations of the state. The text includes comments on the returns, a consideration of the plan of operation and a copy of the constitution of the People's Building and Loan Association of the town of Harrison, New Jersey, and remarks by secretaries giving the financial operations of their associations in a number of cases. The tables give, by location, the name and secretary of each association, the date of organization, the number of shares and of shareholders, the amount of assets and how they are invested, the amount of profits, the value of shares, etc., and a recapitulation, by counties.

Cooperation in New Jersey and in New England (17 pages).—This gives a textual and statistical account of cooperative stores in New Jersey, including a list of those organized under the state act, and copies of the reports of such associations as reported to the bureau, giving their financial operations and conditions, with textual extracts; and tables taken from the monograph of Edward W. Bemis, entitled *Cooperation in New England*, giving the name, location, date of organization, capital, etc., of distributive and productive cooperative enterprises in New England.

The Patrons of Husbandry (17 pages).—This is a textual account of the origin, progress, declaration of principles, etc., of the Patrons of Husbandry and its position and efforts concerning cooperation, grange banks, fire insurance, politics, etc.

Specific state industries (48 pages).—This part of the report is divided into two chapters, giving textual and statistical accounts of the silk industry in the United States and in New Jersey, and of the production and consumption of malt and other liquors in both the United States and Europe. Under the first head the text gives a general consideration of the tables and an account of the principal silk manufactories in the state. Tables give, by individual establishments, the amount of their capital, the amount paid in wages, the hours of labor of employes, the value of the raw material used and of the product, the number of employes, etc.; the average wages paid silkworkers in Crefeld, Germany, for the years 1882, 1883, and 1884, and the wages, by occupations, of men, women, and children in 1884; the number of establishments in the state, the number of employes and their wages and the value of the product, for the years 1879, 1880, 1881, 1883, and 1886; the value of imports of silk, by years, from 1875 to 1886; the relative value of imports of silk from different countries, from 1883-'84 to 1885-'86; the amount of imports each month of 1886; the amount and value of imports at New York and San Francisco, by years and months, from 1880 to 1886; the value of silk manufactures received at New York, from 1879 to 1886, by articles; and the number of mulberry trees sent out to each of various states by the Women's Silk Culture Association. Under the second head tables give, by articles, the consumption and production of distilled and malt liquors and wines in this and other countries, from 1863 to 1886; the internal revenue and customs receipts from liquors, by years, from 1866 to 1886; the annual consumption of distilled and malt liquors and wines in the United States and the average annual consumption per capita during the years 1840, 1850, 1860, and each year, from 1870 to 1886; for the United Kingdom of Great Britain and Ireland, the consumption per capita of distilled spirits, wine, and beer, each year, from 1871 to 1885; the total and per capita consumption of beer and wine each year, from 1881 to 1885; the population; the total and per capita cost of all liquors consumed in various years, from 1820 to 1882; and the estimated cost of intoxicating liquors consumed, the number of apprehensions for drunkenness, the number of convictions for crime, and the number of lunatics, each year, from 1860 to 1882; the production, importation, exportation, and consumption of wine in France, each year, from 1879 to 1885, and of distilled spirits and beer in Germany, each year, from 1872 to 1885; the per capita consumption of luxuries, by articles, for various countries, from Mulhall's *History of prices*; the annual production, the amount of tax paid, the number of breweries, and the per capita consumption of beer of the world, by countries; and the production of beer in each of the several states and territories for the years 1885 and 1886. An article by F. N. Barrett, editor of the *New York Grocer*, on the cost of alcoholic beverages to consumers in this country, contained in a report of the United States Bureau of Statistics, is reproduced in full. This article gives, in addition to text, tables showing, by years, from 1882 to 1886, separately for each article, the per capita consumption, the estimated cost of liquor consumed, the total population and the estimated drinking population in this country, and for each brewery of the state making returns, the amount of its capital, the average number of employes, the length of time in operation, and the value of material used and of the product, etc.

Five manufacturing centres; the growth and present condition of Camden, Jersey City, Newark, Paterson, and Trenton (29 pages).—This is a mainly textual consideration of the growth of these five cities, but contains statistical tables for each, giving, by industries, the number of establishments, the amount of their capital, the number of employes (men, women, and children), the value of the materials used and of the products, and the total amount paid in wages in 1880, and a summary for all industries for 1880 and 1886; and the population, the valuation of property, the amount of indebtedness and the tax rate of each for the years 1880 and 1885.

Labor legislation (13 pages).—Copies are here given of the laws of the state relating to labor, enacted in 1886 and 1887. They comprise laws providing for public libraries; relating to the attachment of wages; requiring fire escapes for tenement houses and for factories; relating to mutual aid societies; providing for public parks in cities; for arbitration of labor disputes; relating to building and loan associations; regulating the hours of labor of street railway employes; providing for legal holidays; for industrial education; requiring prison-made goods to be stamped; and providing for the health and safety of employes in factories.

TENTH ANNUAL REPORT, 1887.—[372 PAGES.]

Introduction (2 pages).

Labor organizations in America and England (64 pages).—This gives a textual consideration of the tendencies of labor organizations in this country and in England; and statistical tables concerning labor organizations in New Jersey, giving, separately for the Knights of Labor and for trades unions, by name of organization and location, the membership of each at date of organization, the number of men in good standing and of men not in good standing, during the year, their nativities, hours of labor, the time and manner of payment of wages, the efficacy of the organization in increasing wages, reducing hours of labor, and in starting cooperative enterprises, the membership expenses, and the regulations concerning apprenticeship and benefit features. Summaries give their membership, the number foreign or native born, the number of males or females, by location and occupation. Two short tables give, for various years, from 1834 to 1887, the number of trades unions and Knights of Labor assemblies in the state; and the number of men, women and children employed in each of the manufacturing industries of the state, from the United States census of 1880.

The policy of our labor organizations (36 pages).—This is an account of the history, principles, objects, and rules of action of the principal labor organizations in the United States, with a copy of the by-laws of the Paterson board of arbitration.

Benefit features and strike regulations of our labor organizations (51 pages).—This consists of a textual consideration of the constitutional provisions of the principal labor organizations of the country in regard to strikes and benefits, and the practical results of such provisions. Figures are generally given showing the total amount expended for benefits.

Some further details of the history, success, or failure of the labor organizations of New Jersey (54 pages).—This part of the report is largely devoted to the local history of labor organizations in the state. There is also given a consideration of the truck system, of apprenticeship, of cooperation, and woman's work and wages, including extracts from the first report of Mrs. Barry, a special investigator of the subject of woman's work and wages, employed by the general assembly of the Knights of Labor.

Strikes and lockouts (107 pages).—This embraces a textual account of a number of recent strikes in the state; a review of strikes and lockouts in the United States, for 1886 and 1887, including tables from Bradstreet's, showing for each year, by industries, the number of strikes, the number of days lost in successful and in unsuccessful strikes in 1887, and the loss of wages in a number of the principal strikes of each year, etc.; and statistical tables from the Third Annual Report of the United States Commissioner of Labor, giving a list of strikes and lockouts in New Jersey each year, from

1881 to 1886, by industries, showing for each, its date, duration, cause, result, whether ordered by a labor organization or not, the number of employes, their hours of labor, their wages before and after the strike, the losses to employers and employes, etc. Summaries give the same, by industries, for the period from 1881 to 1886, and for the period 1886-'87, from bureau returns; and by years, from 1881 to 1887.

Cooperation (18 pages).—This comprises statements of different persons concerning cooperation and statistical tables giving the number of cooperative societies, the number of their members, etc., in England, Scotland, and Ireland, for 1875 and 1885; a list of cooperative associations incorporated in the state during the year; and financial reports for 1887 from several cooperative associations.

The hat industry (7 pages).—This gives a textual and statistical account of the condition of the hat industry in the state. Tables give, by establishments, the amount of their capital, the number of hats produced and their value, the number of employes (men, women, and children), the average daily wages of skilled and of unskilled employes, the number of months in operation, etc., and the number and value of hats exported to various countries from San Francisco and from New York in 1887.

Labor legislation (20 pages).—This consists of copies of acts relating to the employment of labor and affecting the interests of wage-earners in the state. There are acts providing for manual training; for industrial education; for the education of children; relating to building and loan associations; to mechanics' liens; requiring fire escapes for factories and public buildings; prohibiting the sale of liquors to minors under 18 years of age; relating to landlords and tenants; providing for public libraries; for the incorporation of library associations; for public parks; relating to unclaimed deposits in savings banks; and providing for payment of wages in legal tender.

ELEVENTH ANNUAL REPORT, 1888.—[669 PAGES.]

Introduction (5 pages).

Railroad casualties, American and foreign (74 pages).—This is a comprehensive textual and statistical consideration of the subject of railroad accidents, both in America and in foreign countries. The text contains analyses of statistics comparing different countries and different periods, and illustrative tables, giving the proportion of passengers killed and injured to the number of passengers carried, in different countries; by countries or states, the number of casualties to employes, the road mileage, and the proportion of accidents to the number of miles in operation, and to the total number of employes; the number of casualties and the proportion to the number of employes, in Massachusetts, from 1878 to 1887. There are also short tables from the United States census report of 1880, showing the number of accidents, and the proportion to the number of locomotives in use; and a table from the Railroad Gazette showing the number of accidents in 1887, by causes. The record of New Jersey is given for thirty-six years, with the record for 1887 in detail, including short tables showing the number of accidents by periods, 1852-'57, 1857-'67, 1867-'77, 1877-'87, and, by years, from 1878 to 1887, whether to employes or passengers, and whether fatal or not; the number of accidents in 1887, by railroad systems and classes of occupations; the number of accidents in Michigan in 1886, by occupations. A summary of the incomplete records of New Jersey since 1852 gives the number and per cent. of fatal and non-fatal accidents, by occupations. Considerable text relates to the causes of accidents and a summary of railroad legislation in the different states. The general statistical tables give the number of railroad casualties in New Jersey in 1887, by roads, whether to passengers or employes, and fatal or not fatal; the number of casualties in New Jersey during the period 1877 to 1887, and for 1887 alone, by roads and causes; the number of casualties, by periods, from 1852 to 1887, and by roads; the number of casualties to employes in each of seven states, classified by causes, etc., for the years 1886 and 1887, respectively, and the same information for seventeen states; the number of casualties occurring in the United States, in 1879-'80, fatal or

not fatal, whether from carelessness or not, to employes, passengers, all others or unclassified, from the United States census of 1880; and from the same a table showing, by geographical-groups of states, the number of accidents to employes, passengers, etc., and whether fatal or not, the number of miles of road in operation, the number of employes, the number of passengers carried, etc.; the number of casualties in each of ten states and in Germany, Austria, and Holland, to employes and passengers, showing the responsibility for the same; the number of accidents on the united railroads of New Jersey, from 1878 to 1887, by classified causes; the number of casualties in Massachusetts, to whom occurring, whether from carelessness or not, etc., each year, from 1878 to 1887; and the number in Ohio, each year, from 1868 to 1887, showing the number fatal or not, whether to employes or passengers, and the amount paid for injuries. There is included a paper on railroad casualties in the United Kingdom, taken from the general report of the board of trade, London, 1887, which gives, in addition to text, tables showing the number of employes killed and injured, from 1878 to 1887, in coupling and uncoupling operations and in shunting operations including coupling and uncoupling; the number of railroad employes killed and injured by train accidents and whilst engaged in their several occupations, each year, from 1874 to 1887, and the proportion of the whole number killed or injured to the total number employed; the number of employes of railroad companies in 1887, by occupations, the number injured and killed and the proportion of killed and injured to the total number employed in 1886 and 1887; the number of passengers and employes killed and injured in 1887, by classes of accidents; and the number of accidents each year, from 1877 to 1887, by causes.

Other tables give the number of train accidents, the number killed, etc., in the United States, each month during 1887, and each year, from 1877 to 1887, as reported by the Railroad Gazette, and tabulated by the Massachusetts railroad commissioners; the proportion of passengers killed and injured from causes beyond their own control, in Massachusetts, each year, from 1878 to 1887, and in the United Kingdom, from 1874 to 1887; the number of passengers carried for each one killed on surface steam railroads of New York, from 1883 to 1887; the proportion of passengers killed and injured from causes beyond their control on railroads in the United Kingdom, New York, and Massachusetts in 1884; the number of persons killed per 1,000 persons carried on railways in several German states, and European countries, according to Dr. Engel; also the number of persons killed or injured in their several occupations, whether of railroad or otherwise, in 1869, separating the employers from the employes, the proportion of fatal and non-fatal accidents in every 1,000 who met with accidents, by occupations; the number of accidents, in 1869, to men and women, by industries and detailed causes; the number of fatal accidents in Prussia, each year, from 1883 to 1885, by occupations, and the number occurring in the exercise of a trade; the number of persons killed in Prussia each year, from 1873 to 1876, and the number of those who were in active employment. There is also given an article from the Railroad Gazette of September 25, 1885, on the car-coupler holocaust, which gives, in addition to text, tables showing a record of employes killed and injured by accidents and of those suffering from natural diseases in the Baltimore and Ohio Employe Benefit Association for different periods, from 1880 to 1885; a record of the nature of the injuries to employes for the year ending September 30, 1883, and for the twenty-nine months preceding; the number of accidents in coupling cars in 1878 and 1879, being the years before and after the Lake Shore and Michigan Southern Railway Company was compelled to use coupling sticks; a comparison of the number of employes in the United States killed and injured in 1884 and 1880; and the percentages of the various causes of casualties to employes for various periods in Massachusetts, New York, Michigan, and Iowa, according to their state reports; the number of employes in the United States killed and injured in train accidents from 1882 to 1884; and the average number killed and injured in train accidents and in coupling cars in New York during the period from 1885 to 1887.

Employers' liability for personal injuries to their employes (168 pages).—Under this heading is given a comprehensive textual consideration of the legal liability of employers for personal injuries to their employes. It includes a table of average wages of railroad employes, an account of both home and foreign legislation, accounts of railroad insurance, of the Baltimore and Ohio Employes' Relief Association, with an official table showing the character and amount of benefits paid from May 1, 1880, to September 30, 1887; of the Pennsylvania Voluntary Relief Department, with tables showing the number of payments and the amount of benefits paid for the years 1886 to 1888; the total membership for each year, by roads, the amount of contributions, and the average benefit, etc., each year; of the Philadelphia and Reading Relief Association; and of the Lehigh Valley Railroad Relief Fund, with a table giving, by years, from 1878 to 1887, the number of contributors and the amount of the contributions. An appendix gives copies of employers' liability laws of various countries and states, a report of a select committee of the house of commons, 1877, on employers' liability, the decisions of various courts on the subject, an account of the regulations of the various railroad relief associations in the United States and also of several in various European countries, with illustrative tables in some cases, and extracts from consular reports bearing on employers' liability.

Wage statistics (207 pages).—This comprises statistical tables, based on data furnished to the agents of the bureau by both the employers and employes connected with many of the largest industries of the state. There are ten tables. The first set, four in number, gives the number and wages of employes in 175 industrial establishments, by sex and occupations, separately for each industry, with the per cent. of the total number receiving more or less than the average rate of wages; by industries, the number and per cent. of employes (men, women, and children), classified by wages received; and by industries, the number of establishments, the number and per cent. of employes (men, women, and children), and their average wages. Other tables give the cost of production of various manufactured products, by the classes of items of labor, materials, administration and other expenses, and the percentage of each class to the total cost; by products, the percentage in which labor, materials, administration, other expenses, and profits enter into the value of the product. Collated statistics from individual employes embracing 805 wageworkers, give, by industries, the occupation, nativity, place of employment, hours of labor, wages, earnings, and time lost, by causes, of each employe; also, for each one, the number in his family, the number working, their earnings, the total cost of living, whether belonging to a benefit association, etc. A final table for 292 female workers, gives, for each one, by industries, her conjugal condition, nativity, occupation, number of years at work, wages, number of months employed, the price paid for board, etc.

Cooperative building and loan associations of New Jersey (167 pages).—This gives a textual and statistical account of savings banks and cooperative building and loan associations in New Jersey, and, more briefly, of those in other states. The text includes decisions of state courts, and copies of the acts of New York and Massachusetts concerning building associations, a consideration of the methods of operation of different kinds of associations, with short illustrative tables, an extract from Dexter's treatise on Cooperative savings and loan associations, on the division of profits, statements from a large number of secretaries of associations, and short illustrative tables giving the number of savings banks, the number of deposits, etc., in the state, each year, from 1878 to 1888, a list of savings banks in 1887, the dates of their organization, the amount of their deposits, etc., and the number of building associations, in various years, from 1860 to 1888, and by counties. The general statistical tables give, by location, a list of building and loan associations in the state, the amount of the assets of each, the number of shares and shareholders, etc., with a summary, by counties, and for each association the number of shareholders (men, women, and children), the number of borrowers, the premiums paid, the total profits per share, the value per share, etc.

School statistics (19 pages).—This gives statistical tables, with textual comments, showing, for each of various cities in the state, by grades or departments, the number of schools, the number of pupils, the average and percentage daily attendance, by sex, the number of teachers, etc., the number of pupils enrolled and attending, by age and sex, the total number of children in the state, by ages, and the percentage enrolled and attending school, the percentage of children, by ages, enrolled in public schools in cities of the state, from 1875 to 1888, the percentage of school children of all ages enrolled in the public schools, from 1885 to 1888, in each of the principal cities, the percentage average of daily attendance in each city in 1888, by ages, and the per cent. of children of school age enrolled in each, by age periods and sex.

Labor legislation (10 pages).—This consists of copies of the acts of the state legislature passed in 1888, providing for the education of children; for public libraries; for the appointment of deputy factory inspectors, etc.; requiring fire escapes for factories and public buildings; relating to building and loan associations; to mechanics' liens; providing for the protection of trade marks; and a supplement to the act providing for the establishing of a bureau of labor statistics.

TWELFTH ANNUAL REPORT, 1889.—[454 PAGES.]

Introduction (4 pages).

The effect of occupation on the health and duration of the trade life of workmen (303 pages).—Under this heading are given a discussion of the influence of occupation upon the health and trade life of workmen, and a brief account of what has been done in this country and in various European countries in the way of factory inspection and the collection of health statistics, etc.

The tables comprise the summarized replies from 4,739 journeymen engaged in the glass, hat, and pottery industries of the state, as well as information respecting several hundred workmen who, from incapacity or other causes, had quit the trades at which they were once employed. These tables show, by industries and occupations, the age of the employes when they began to work, their present age, the number native and foreign born, the age at which they begin to decline, the length of time journeymen have been at work, classified by years, and their nativity, by industries; the age of incapacitated workmen, or of those who have left the trade; the causes of decline or diseases of journeymen contracted at work, and the age of decline or when disease was contracted, etc.; a record of deaths among members of various workmen's associations, showing the cause of death, etc.; and records showing, in detail, the age and causes of decline of journeymen, and of diseases contracted at their trades, etc. In connection with and as introductory to the tables, there is given an account of the results of the more general observations of medical experts, based on private professional experience or the official inspection of workshops and mills. A chapter of text and tables from *Elements of vital statistics*, by Dr. Arthur Newsholme, gives information as to the death rate in various professions and occupations, by periods, from 1861 to 1871, and from 1880 to 1882; and the comparative mortality of males working in air of different degrees of purity, and in certain dust-inhaling occupations, from phthisis and disease of the respiratory organs.

Copies of the factory act of Switzerland of 1877, and of the factory and workshop acts of England, of 1878 and 1883, and extracts from the factory act of France, are added.

Real estate mortgage indebtedness and foreclosure executions (86 pages).—This chapter gives a textual and statistical consideration of real estate mortgage indebtedness in the state. The general tables give, by counties, for various years, the number of real estate foreclosure executions; the number issued against individuals and corporations, showing the number of acres and lots involved, the amount of the mortgages, etc., for various years, from 1856 to 1888; the foreclosure executions in the principal cities, and the mortgages foreclosed by corporations classified as building and loan associations, insurance companies, banks, etc., giving the number and amount in-

volved for various years, from 1856 to 1880; the number of foreclosure executions, classified by the amount of the mortgage and acreage, the life of mortgages on farming lands and on lots for various years, from 1856 to 1880; the number of recorded mortgages, by counties, for various years, from 1870 to 1888; the number and amount of mortgages recorded in Essex county, for the years 1875, 1880, and 1886 to 1888, and the proportion made to corporations, and the assessed valuation of real estate in 1875, 1880, 1885, and 1886, classified as rural, urban, seaside, etc., with the increase or decrease for each period. Tables illustrating the text give summaries showing the proportion of foreclosures to mortgages, and of foreclosures and mortgages to the population and to the value of the real estate of the state for the periods covered by the general tables; the number and amount of foreclosures against individuals and on farm lands each year, from 1880 to 1888; the rates of interest charged, etc., on mortgages; and the number and liabilities of mercantile failures in New York city, New Jersey, the middle states, and in the United States, each year, from 1880 to 1888, from Bradstreet's.

Industrial cooperative legislation in England and the United States (40 pages).—This topic presents information on the industrial cooperative legislation in this country and in Great Britain, including a synopsis of the laws regulating the organization and management of cooperative associations in England and in Switzerland, as well as copies of acts in force in various states of the Union.

Labor legislation (8 pages).—This is devoted to labor legislation enacted at the session of the state legislature during the year, providing for industrial education; requiring fire escapes for factories, etc.; providing for public libraries; and relating to banks, building and loan associations, and other corporations.

THIRTEENTH ANNUAL REPORT, 1890.—[454 PAGES.]

Introduction (2 pages).

Cooperative building and loan associations (286 pages).—This is a textual and statistical account of the building and loan associations in New Jersey, compiled from data furnished by the secretaries of these associations in conformity with an act approved June 13, 1890. Their development and extent and the several plans under which they are operated in the state are shown in a series of short tables and in the statements furnished by the secretaries. A paper prepared by S. R. Struthers, of Plainfield, considers the advantages of combining the methods of life insurance and building and loan association investment; another paper, prepared by Judge Seymour Dexter, of Elmira, New York, treats of the growth of these associations and their economic value; and a communication to the Newark Evening News of January 29, 1891, by C. Birdsall, points out some of their defective methods. Brief summaries classify the associations of the state, by counties, according to the number of shares outstanding, the number of shares borrowed on, the membership, the number of borrowers, the net assets, the number of series, shares, and shareholders, the indebtedness, income, and expenditure, and the investment of assets. General tables 1 to 5 give a list of the building and loan associations of the state, their location, names of secretaries, dates of organization, and the maturing values of shares; general statistics in detail, showing the number of series, shares, shareholders, and borrowers, the net assets, instalment dues, and arrears, the net profits, indebtedness, receipts, and disbursements, and the number of salaried officials; a detailed statement of the nature of the investment of assets and the amount of arrearages; the number paying for homes, the number of houses built during the year through loans from the associations, and the number of shares outstanding in each series and their value. These tables are followed by specimen reports of several associations, the constitution and by-laws of the Building and Loan Association League of New Jersey, the laws of the state relating to building and loan associations, and the first English building association act (1836).

Abandoned farms, farm values, and the depopulation of the rural districts of New Jersey (33 pages).—This chapter consists entirely of statistical tables, numbered 2, 3, and 4, the first part, relating to abandoned farms, having been omitted and referred to the state board of agriculture for further investigation. Table 2 gives, by counties and townships, the acreage, the market value per acre of best, medium, and poorest cultivated farms, and the percent. of increase or decrease since 1880. Table 3 gives the population of cities of 4,000 inhabitants and over in 1880 and 1890, and table 4 the population of minor civil divisions for the same years.

Effect of occupation on the health and duration of the trade life of workmen (57 pages).—This part of the report is a continuation of the investigation begun by the bureau the preceding year to determine the duration of the active trade life of employes in various industries, and consists chiefly of a textual and statistical consideration of the conditions surrounding miners of iron ore, glassworkers, hatters, and potters. The tables show the age when they began work, their present age, nativity, the number beginning to decline, the age of decline, the number of years at work, and separately for miners, in detail, the ages and causes of decline and incapacity.

The question of apprenticeship in the glassblowers' trade (22 pages).—Under this heading is presented an account of the trouble existing between the manufacturers and workmen in the green glass bottle trade for several years past, relating to the question of apprentices in this trade.

Development of statistical inquiry in New Jersey (30 pages).—This is a general review of the development of census inquiry, both of the United States and the state, and of statistical investigation in New Jersey in particular, including a summary of the work of the bureau since its organization. A few short tables, interspersed throughout the text, give the population of New Jersey in 1726, 1737, 1745, and 1784.

Labor legislation (8 pages).—This is a compilation of the acts passed by the legislature in 1890 and 1891 in the interest of labor, relating to the appointment of special police officers; to the establishment of legal holidays, including labor day; to mechanics' liens; and providing for the better securing of wages to employes on public works and to employes of corporations.

FOURTEENTH ANNUAL REPORT, 1891.—[618 PAGES.]

Introduction (2 pages).

Labor legislation of New Jersey (169 pages).—This shows the development of labor legislation in England and in this country and gives a summary of factory legislation in the state; decisions of New Jersey courts; a copy of the factory and workshop act of England of 1891; and a compilation of the laws of the state limiting the hours of labor and preventing the employment of children in factories under 10 years of age; regulating the hours of labor on election day; relating to days of recreation and holidays; regulating the hours of labor of employes of surface and elevated railroad companies; providing for the better protection of the drivers of horse cars on street passenger railways in the cities and towns of the state; requiring employers to provide suitable seats for female employes; limiting the age and hours of labor of children, minors, and women; providing for the health and safety of employes in factories; requiring fire escapes for hotels, manufactories, and other buildings; providing for arbitration of labor disputes; for the education of children; for the establishment of schools for industrial education; for the protection of children from neglect and cruelty; securing to employes the payment of wages; providing for payment of wages in legal tender; relating to the wages of married women; providing for exemption from execution or other process; relating to mechanics' liens; providing for the collection of demands against ships, steamboats, and other vessels; regulating convict labor; abolishing the convict contract system; relating to persons entering into unlawful combinations; authorizing the formation of railroad corporations and regulating the same; providing for the better protection of passengers upon railroads, and insuring the prompt transportation and

delivery of freights; exempting telegraph operators and linemen from militia duty; suppressing vice and immorality; establishing a bureau of labor statistics, with supplements thereto; incorporating benevolent and charitable institutions; providing for the adoption of labels, trade marks, and forms of advertising by associations or unions of workmen; and incorporating building associations formed by Knights of Labor or other societies of organized labor, etc.

The effect of occupation on the health and duration of the trade life of workmen (64 pages).—This is a continuation of the line of investigation followed by the bureau in 1889 and 1890 to determine approximately the influence of occupation upon the health and trade life of those employed in the leading industries of the state. The tables comprise the tabulated returns from 6,815 journeymen employed in the county of Essex, and in the cities of Trenton, Elizabeth, Paterson, and Jersey City, namely: 2,732 carpenters, 1,235 housepainters, 1,022 bricklayers and masons, 701 stonecutters, 661 plumbers, and 461 printers; and a summary of the data relating to glass workers, hatters, potters, and miners of iron ore, published in the two preceding annual reports of the bureau. These tables give, by industries, the ages of the employes when they began to work, their present ages, the number native and the number foreign born, the ages at which they began to decline, the length of time journeymen have been at work, classified by years, their nativities, classified by industries, the causes of decline or diseases of journeymen contracted at work, the ages of decline or when the disease was contracted, etc.

Cooperative building and loan associations of New Jersey, (339 pages).—This is a textual and statistical account of the building and loan associations in the state, compiled from returns received from the secretaries of these associations and made in conformity with the law of the state. The text contains general remarks on expenses, indebtedness, cancelled shares, withdrawals, maturity of shares, rate of profits, premiums, and loans; extracts from statements made by secretaries; extracts from the report of the secretary, Prof. George Forman, of Newark, New Jersey, to the first annual meeting of the New Jersey Building and Loan Association League, including a copy of bulletin No. 1, issued by him, on Apportionment of profits; a synopsis of an address delivered before said league, on the management of a building and loan association, by Judge Seymour Dexter; and a paper read before said body, by Prof. Martin Mulvey, principal of the Newark Business College, on the subject of building and loan association bookkeeping.

The development of the building and loan movement in New Jersey during the past six years is shown in a series of short tables. Brief summaries classify the associations of the state, by counties, according to net assets, to the number of shares outstanding, the number of shares borrowed on, the membership, the number of borrowers, the number of series, shares, and shareholders, the net assets, net profits, indebtedness, receipts and disbursements, the investment of assets, the maturity of shares, the interest and premium rates, the premium plans, periodicity of issuing series, maturing value of shares, and instalment dues payable, and real estate mortgage loans, showing the largest and the smallest loan, and the distance at which the loan is placed.

The general tables, five in number, are presented in a manner similar to those outlined under the same heading in the preceding annual report. These are followed by specimen reports of several associations.

Supplementary labor legislation (25 pages).—This part of the report contains the labor laws enacted by the legislature of the state during the session of 1892. These are laws providing for the amicable adjustment of grievances and disputes that may arise between employers and employes, and authorizing the creation of a state board of arbitration; relating to peace officers; providing for the appointment of a commissioner of mines, and defining the powers and duties of such commissioner; for the safety, health, and work hours of operatives in factories and workshops; securing to laborers and workmen in the employ of corporations a prior lien for wages in cases of insolvency; the payment of laborers, mechanics, merchants, traders, and

persons employed upon or furnishing materials toward the performing of any work in public or private improvements in cities, towns, townships, and other municipalities in the state; protecting trade marks and labels; providing for the publication of legal advertising in newspapers devoted to the interests of organized labor in cities containing fifty thousand or more inhabitants; and for the formation and regulation of cooperative societies of workingmen (enacted in 1884).

NEW YORK.

FIRST ANNUAL REPORT, 1883.—[127 PAGES.]

Report (34 pages).—Under this heading are embraced a statement of the organic law creating the bureau of labor statistics; correspondence concerning the general purposes of the bureau, and concerning the legality of the existing contracts for convict labor; conclusions of the commissioner that said contracts are invalid and grounds of such conclusions; information as to the value of buildings furnished by the state to contractors; as to the number and wages of convicts employed by the several contractors in the various industries in which convicts were employed; two short statistical tables, showing for each year, from 1851 to 1876, the earnings and expenses of the Sing Sing, Auburn, and Clinton state prisons, collectively, under the public account system, and for each year, from 1877 to 1882, under the contract system; and statements and arguments of friends of the contract system in its favor.

Testimony of manufacturers and workmen on the results of convict contract labor in the New York state prisons, 1883 (22 pages).—This part of the report embraces the replies of manufacturers and workmen engaged in the same industries as those pursued in the prisons of the state, to circulars making inquiry as to the effect upon their business, of the employment of convicts under the contract system.

Testimony of experts in prison management on contract system (14 pages).—Under this head are embraced statements emanating from various authorities on prison discipline as to the effects of different systems and plans.

Review of the testimony and recommendations (15 pages).—An analysis of the information obtained, and recommendations to the legislature that the then existing contracts for prison labor be annulled; that further contracts for the labor of convicts be prohibited by law, and that in lieu thereof manufacturing under the piece price system be substituted.

Appendix (39 pages).—The appendix contains an itemized statement of the expenditures of the bureau from June 1, 1883, to January 8, 1884; copies of the various existing contracts under which labor was performed by convicts in the state prisons, and the laws of the state regulating the making of contracts for convict labor.

SECOND ANNUAL REPORT, 1884.—[521 PAGES.]

Child labor (352 pages).—This subject embraces a textual and statistical consideration of the employment of children in the state. The tables are based on returns received from manufacturers and agents of the bureau, and give for each establishment reporting, the value of the raw material used, the amount of capital invested, the expenses, the total amount paid in wages, the number of employes, by sex, over 14, and under 14, 13, 12, or 11 years of age, respectively, their nationality, intelligence, wages, hours of labor, size of rooms in which employed, their sanitary condition, etc. The text consists of testimony taken to establish the fact of existence of child labor in the state; the testimony of physicians establishing the injurious effect of child labor upon the physical nature of the child; an essay by Roger S. Tracy, M. D., sanitary inspector of the board of health of New York, upon the hygiene of occupation, giving the diseases peculiar to each trade, with their causes; tes-

timony establishing the effect upon the moral and educational growth of children employed in factories, and the standard of intelligence of such children; the educational legislation of Massachusetts, Rhode Island, and Connecticut; a table giving, by counties and cities of the state, the number of children of school age for each qualified teacher; the average daily attendance per teacher, etc.; extracts from reports of school superintendents on the subject of child labor; an account of the manual training school of Saint Louis, Missouri; and copies of laws passed by the legislature of New York regarding child labor and factory inspection.

Report of the Pullman investigation (18 pages).—This is a joint report by the chiefs and commissioners of the various bureaus of labor of an investigation of the economic experiment conducted by the Pullman Palace Car Company, at Pullman, Illinois. The sketch includes the history of Pullman, its methods of construction, tables showing its growth in population, the religious belief of its inhabitants, and a brief discussion of wages, rents, living expenses, and health, etc.

Visit of the subcommittee of the Senate Committee on Education and Labor to factories and operatives' homes (11 pages).—An account of the visits made by the committee to several operatives, homes and cotton factories in New England, with an accompanying table giving the wages of workmen and workingwomen, by occupations, for the years 1850, 1855, and 1883, in the Manchester, New Hampshire, mills.

Labor laws of the different states (131 pages).—Under this heading are given copies of the laws in force in the various states regulating the employment of women and children, factory inspection, hours of labor, etc. The text is followed by two tables, one giving the school statistics of the United States for 1882, showing, by states and territories, the school population, the number enrolled in public schools, the average daily attendance, and the average duration of school, in days; the other, derived from the official returns of the tenth census, 1880, giving the number of persons engaged in the various occupations in the United States for 1870 and 1880. The laws referred to prohibit the manufacture of hats by convicts; abolish the convict contract system; prohibit the manufacture of cigars in tenement houses in certain cases; secure the wages of employes in cases of assignment; prohibit the employment of children by contract in houses of refuge; relate to the payment of wages to minors, and to the employment of apprentices; secure the wages of female employes; require employers to provide seats for female employes; provide for exemption of homesteads from execution; secure the wages of railroad employes; regulate the hours of labor on public works; relate to cooperative associations, unlawful assemblages; to conspiracy; provide for the education and protection of children; regulate the hours of labor; prohibit the employment of women and children in mines; provide for the health and safety of employes in factories; secure inspection of factories through district and other police officers; regulate the hours of labor of children in factories; limit the age of children employed in mines and in factories; regulate the hours of labor of children, and payment of wages under special contracts; prohibit intimidation of employes; relate to liability of employers for injuries to employes; regulate the hours of labor of women and children, and the hours of labor of women and children in factories; etc. A copy of the Great Britain factory act of 1878, entitled "A bill to consolidate and amend the law relating to factories and workshops," and the English trade working rules, including copies of the working and trade rules as agreed to by the Liverpool Master Builders' Association, and the organizations representing the several building trades in Liverpool, England, are also given.

THIRD ANNUAL REPORT, 1885.—[655 PAGES.]

Introductory (9 pages).—This includes a statement of the duties pertaining to the bureau, the methods employed in conducting its investigations, and suggestions for promoting its efficiency and best interests.

Workingwomen (180 pages).—A textual and statistical consideration of the employment of workingwomen in New York city. Tables, compiled from returns received from manufacturers and employes, give for each occupation, separately, the number of employes, the lowest, highest, and average wages per week, their conjugal condition, hours of labor, earnings, number of days lost, place of living, amount paid for board, the quality of food, the condition of their homes, the sanitary condition of their place of work, and safeguards against fire. The text gives, with illustrations, the results of visits to the places of work and the homes of workingwomen; accounts of New York's charitable institutions for workingwomen, including homes, asylums, etc.; a consideration of the evil of prostitution, giving the causes in two thousand selected cases, and the testimony of physicians in a position to afford information; an account of lodging houses in the city, with a table giving their location, the number that they accommodate, and the price for lodging; and a general consideration of workingwomen's wages, their hours of labor, health, etc.

Strikes (136 pages).—This subject embraces testimony of employers and employes regarding strikes and blacklisting which occurred in the state during the year ending November 1, 1885, and a short table giving a list of strikes, by industries, their location, date, number of persons engaged in the strike, and the causes and results.

Boycotting (32 pages).—A textual account, with testimony by employers and employes regarding boycotts, and two tables, one giving a list of boycotts that occurred in the state during the past year, and the other giving, by industries, the number of boycotts, with their results, in the United States, during the years 1884 and 1885.

Arbitration (113 pages).—This consists of a textual consideration of arbitration in France, giving an account of the *Conseils des Prud'hommes*; of arbitration in Switzerland; the laws of various states in regard to arbitration; a copy of the rules of the Straiton and Storm board of arbitration of New York city; an account of arbitration in England; and testimony and a textual consideration of arbitration in the state.

Foreign labor (36 pages).—Testimony concerning foreign labor in the state, and a table showing the trades affected by foreign labor.

Reduction of hours of labor (26 pages).—This gives a brief sketch, with testimony of employes, of the several attempts made by workmen to bring about a reduction in the hours of labor, and a table showing the hours of labor, wages, and average time employed, of workmen engaged in various trades in Albany, Buffalo, New York, and Utica.

Labor organizations (67 pages).—A textual consideration of trades unions in England, with a copy of her trades unions law; a brief account of labor organizations in the state, and testimony of workmen in favor of legalizing trades unions.

Conclusions and recommendations (17 pages).—This embraces a general textual consideration of the results of the investigations conducted by the bureau during the past year, with brief recommendations for legislative enactment of measures for the amelioration of the condition of the working classes.

FOURTH ANNUAL REPORT, 1886.—[860 PAGES.]

Introduction (11 pages).—This includes a review of the act creating the bureau, a proposed amendment to extend its powers, and the methods pursued in conducting its investigations.

Apprenticeship (203 pages).—This subject embraces a comprehensive textual and statistical consideration of the whole apprenticeship question. The text, in addition to a general discussion of the subject, gives specimens of advertisements inserted in the *New York Herald, Sun, and World*, by persons in search of work, at certain skilled trades and callings, and advertisements for boys and young men possessing a knowledge of certain trades, with tables showing the number of such advertisements each month in 1886; an exposition of the methods employed by employ-

ment agencies; a copy of the state apprenticeship law; an article on the apprenticeship law of the state of New York, together with references to the principal legal decisions in which the respective rights and obligations of masters and apprentices have been determined, compiled by Thomas Hampson; extracts from remarks furnished by employers, employes, and others; the rules and regulations of trades unions and labor organizations concerning apprentices, with a table giving, by name of organization, their rules and regulations relative to apprentices; and a consideration of apprentices in foreign countries. Additional tables derived from the reports of the Bureau of Statistics of the United States Treasury Department, give the number of immigrants, by occupations, each year, from 1873 to 1885; and the number landed in New York and in other districts each year, from 1881 to 1885. Tabulated statements compiled from employers' and apprentices' returns show the relative number of journeymen and apprentices in different occupations in Troy, New York, and Brooklyn; the nationality of foremen or superintendents in different manufacturing and industrial establishments of the state; the length of time of apprenticeship; the nativity of parents and apprentices; and the number of parents with the same occupation as apprentices. Other tables give reports from county superintendents and overseers of the poor, and chiefs of penal or reformatory institutions in the state, showing the occupations in which boys and girls who are inmates are employed.

Manual training (141 pages).—This is a comprehensive textual consideration of the general problem of manual training; of manual training schools or similar institutions in New York city; of prominent institutions in other states and of Girard college; the opinions of prominent educators as to manual training and public education, with a tabulation of their opinions and the opinions of leaders of trades unions and labor organizations on the same subject.

Technical institutions and trade schools (44 pages).—This consists of a textual consideration of the Worcester free institute, of the Sibley college, with illustrations; of technical institutions in foreign countries, of the Hoe apprentice school of New York city, of the Anchmuty trade school, New York city, and extracts from opinions and views of labor organizations at home and in England, bearing on the subject of technical education.

Strikes (302 pages).—This topic embraces a textual and statistical consideration of strikes in the state from November, 1885, to November, 1886. A general table gives a list of strikes and lockouts, by industries, showing for each the cause, number of persons engaged, duration, cost, result, mode of settlement, etc., with a summary presenting the same facts in totals for each industry. Other tables give strikes classified by industries, showing wages before and after strike, and number reporting an increase or decrease in wages, the number of employes reporting a discrimination between union and non-union men, a list of sympathetic strikes, with results and modes of settlement, the number of establishments affected by strikes, arranged by counties, the number of establishments closed as the result of strikes, the number of persons engaged in strikes and their loss of wages, a list of threatened strikes, their causes and results, the number of women and girls engaged in strikes, the number of arrests and disposition of the cases, the losses to employers from various causes, and a tabular review of strikes, arranged by causes and results. The text gives an account of the strikes tabulated, remarks and opinions of employers and employes on strikes and their consequences, arguments in favor of short hours of labor, complaints against the truck store system, and a general consideration of the grievances of laborers. The number of building permits issued and the value of buildings erected in New York city, each year, from 1881 to 1886, are given and the same for Brooklyn for 10 months of 1886.

Boycotting (69 pages).—This consists of a textual and statistical consideration of boycotts during the year ending November, 1886. A table gives a list of boycotts, by industries, showing their causes, duration, and results. The text gives accounts

of boycotts tabulated, and of trials for boycotting or for offences growing out of boycotts, in the courts of New York and other states.

Street car employes (31 pages).—A textual consideration, giving testimony and comments concerning the hours and general conditions of labor of street car employes.

FIFTH ANNUAL REPORT, 1887.—[792 PAGES.]

Introduction (30 pages).—This embraces a brief review of the work accomplished by the bureau since its organization, a general discussion of questions relating to labor, and suggestions regarding laws in the interest of the working people.

Strikes of 1887 (481 pages).—This includes a textual and statistical consideration of strikes and lockouts in the state from November, 1886, to November, 1887. A series of tables, arranged by classified industries, is introduced, presenting in detail the following facts: Table A shows the causes of strikes, the number of persons engaged, and results; table B shows the mode of settlement; table C, the wages before and after strike; table D, the hours of work before and after strike; table E, the number of sympathetic strikes, with their causes, results, and modes of settlement; table F, the number of threatened strikes, with their causes and results; table G, the amount of wages lost to employes, the number of establishments reporting, and the number of persons engaged; table H, the number of persons refused work after strike; table I, the cost of strikes to labor organizations; table J, the estimated gain in wages as result of strike; table K, the loss to employers from failure to fill contracts; table L, the loss to employers from refusal of new contracts; table M, the diversion of trade to other manufacturers and states, with estimated losses; table N, the loss from injury to goods or machinery by striking employes or from lack of experience of new employes; table O, the number of establishments closed, or in which work was partially suspended as a result of strikes, lockouts, etc.; table P, the number of firms reporting a discrimination between union and non-union men; table Q, the number of arrests and disposition of the cases; table R, the number of women and girls engaged in strikes; table S, the number of establishments affected and number of persons engaged in reported strikes, lockouts, and boycotts in each county of the state from November 1, 1886, to November 1, 1887. These detail tables are followed by a general summary, showing, by trades or industries, the number of establishments reported on strike, the number successful, compromised, doubtful, unsuccessful, or still pending, the number of persons engaged in, and the number of persons refused work after strike, the amount lost in wages, the amount expended for relief and conduct of strike, the estimated gain in wages for one year, and the loss to employers from all causes. A general table, arranged by occupations, gives, for each strike, lockout, or boycott, separately, its cause and duration, the number of establishments and the number of persons engaged, the number remaining at work, the number refused work after strike, etc., the results, the mode of settlement and losses to employers, to employes, and to labor organizations. The text gives accounts of the strikes, lockouts, and boycotts tabulated; of building improvements in New York City and Brooklyn; and the wages and hours of labor in certain trades in cities.

Boycotts (34 pages).—This contains a textual consideration of a number of boycotts, with tables giving, by industries, the number of establishments reporting a boycott, and a list of boycotts, by industries and causes, giving their duration and results.

Early closing and holidays (9 pages).—This is a textual consideration of the recent act of the state legislature designating holidays, and of holidays in Great Britain.

Conspiracy prosecutions and conspiracy laws (138 pages).—This includes a textual consideration of recent conspiracy cases; and a historical account of early labor legislation in England, New York, and other states down to the date of the report.

Labor laws of 1886 and 1887 (78 pages).—This consists of copies of the laws passed by the New York legislature, providing for the prevention of cruelty to children; for the protection of children; for manual training; for the collection of debts against

ships; regulating the hours of labor of street railway employes; providing for safeguards in running elevators; securing the wages of employes in cases of assignment; incorporating the Gramercy Park School and Toolhouse Association, the Industrial School of Rochester, the Burnham Industrial Farm, and boards of trade; defining liability for wages in the Lockport Water Supply Company and in the Niagara River Hydraulic Tunnel, etc., Company; relating to mechanics' liens; to draining and plumbing in Rochester; regulating the hours of labor of women and children; limiting the age of children employed in factories; extending by amendment the powers of the bureau; providing for the arbitration of labor disputes; for free lectures in natural history to teachers and others; establishing a prison labor reform commission; municipal lodging houses in the city of New York; relating to the State Industrial School; regulating processions and parades in cities; relating to public buildings; to the inspection of steam boilers in Brooklyn; providing for licensing engineers in the city of New York; for the sanitary construction of tenement houses; relating to cooperative life and casualty insurance associations; providing for legal holidays; for public libraries; requiring prison-made goods to be stamped; regulating the time of payment of promissory notes, etc.; providing for safeguards in factories and for certain restrictions in cleaning dangerous machinery; requiring fire escapes for factories and accidents in factories to be reported; providing for the moral protection of messenger boys; fixing the penalty for Sabbath breaking; providing free instruction in industrial drawing; relating to building and loan associations; prohibiting intimidation of employes because of membership in labor organizations; and relieving industrial insurance companies from taxes.

SIXTH ANNUAL REPORT, 1888.—[2 VOLS., 1312 PAGES.]

Introduction (20 pages).—This includes a review of the work accomplished by the bureau during the year and remarks on the value of the bureau and other questions of interest to the working people.

Wages and working hours (1014 pages).—This embraces a number of statistical tables based on returns from employers and labor organizations. A detailed division of industries is first made, and each one is then taken up separately. A table for each gives, by occupations, the number of establishments, number of employes, highest and lowest rate of wages, and hours of labor. Other tables give for each, except a few unimportant industries, highest and lowest wages, and hours of labor prevailing in a large number of the different trades unions and other labor organizations, each year, from 1883 to 1887; with textual opinions and remarks of labor organizations relative to the value of organization, and the wages and nationalities of non-union men.

Opinions of employers and labor organizations relative to the causes of the rise or fall in wages (32 pages).—These are tabulated statements compiled from returns of employers and labor organizations, showing the number reporting a rise or fall of wages, together with the causes producing such rise or fall, and in some cases special answers relating to the subject.

Strikes and boycotts (219 pages).—This embraces a textual and statistical consideration of strikes and boycotts in the state from November, 1887, to November, 1888. A series of tables, arranged by classified industries, is introduced, presenting in detail the following facts: Table A shows the causes of strikes, the number of persons engaged, and results; table B shows the mode of settlement; table C, the wages before and after strike; table D, the hours of work before and after strike; table E, the number of sympathetic strikes, with their causes, results, and modes of settlement; table F, the number of threatened strikes, with their causes and results; table G, the amount of wages lost to employes, the number of establishments reporting, and number of persons engaged; table H, the number of persons refused work after strike; table I, the cost of strikes to labor organizations; table J, the estimated gain in wages as result of strike; table K, the loss to employers from failure to fill contracts; table L, the loss to employers from refusal of new contracts; table M, the

diversion of trade to other manufacturers and states, with estimated losses; table N, the loss from injury to goods or machinery by striking employes or from lack of experience of new employes; table O, the number of establishments closed or in which work was partially suspended as a result of strikes, lockouts, etc.; table P, the number of firms reporting a discrimination between union and non-union men; table Q, the number of arrests and disposition of cases; table R, the number of women and girls engaged in strikes; table S, the number of establishments affected by and number of persons engaged in reported strikes, lockouts, and boycotts in each county of the state from November 1, 1887, to November 1, 1888. These detail tables are followed by a general summary, showing, by trades or industries, the number of establishments reported on strike, the number successful, compromised, doubtful, unsuccessful, or still pending, the number of persons engaged in and the number of persons refused work after strike, the amount lost in wages, the amount expended for relief and conduct of strike, the estimated gain in wages for one year, and the loss to employers from all causes. A general table, arranged by occupations, gives for each strike, lockout, or boycott, separately, its cause and duration, the number of establishments, and the number of persons engaged, the number remaining at work, the number refused work after strike, etc., the results, the mode of settlement, and losses to employers, to employes, and to labor organizations. Two additional tables give, by industries, the number of establishments reporting a boycott, and a list of boycotts showing their causes, duration, and results. The text gives full accounts of the strikes, lockouts, and boycotts tabulated.

SEVENTH ANNUAL REPORT, 1889.—[822 PAGES.]

Introduction (10 pages).—This consists mainly of a textual consideration of the character and results of the investigations conducted by the bureau. Short tables give the number of establishments involved in strikes, the number of strikers, and the result of strikes each year, from 1885 to 1889; the same facts are given for general strikes alone and for threatened strikes.

Strikes for five years, from 1885 to 1889 (455 pages).—This subject embraces a textual consideration of the ethics of strikes, extracts from the constitutions of labor organizations relative to strikes, Mr. Giffen's table, giving a comparison of wages fifty years ago, with present wages, and statistical tables compiled by the bureau. Twenty general tables give a record of each strike during five years, 1885 to 1889, arranged by industries. Table A groups the strikes according to causes, and shows the year in which each occurred, the number of establishments involved, number of persons engaged in strike, the result of strike, amount lost in wages, and the cost to labor organizations; table B shows the mode of settlement for four years, 1886 to 1889; table C, the wages before and after strike; table D, the hours of work before and after strike; table E, the number of sympathetic strikes, with their causes, results, and modes of settlement for four years, 1886 to 1889; table F, the number of threatened strikes, with their causes and results, for four years, 1886 to 1889; table G, the amount of wages lost to employes, the number of establishments reporting, and number of persons engaged; table H, the number of persons refused work after strike, for four years, 1886 to 1889; table I, the cost of strikes to labor organizations; table J, the estimated gain in wages as result of strikes; table K, the loss to employers from failure to fill contracts; table L, the loss to employers from refusal of new contracts; table M, the loss from diversion of trade; table N, the loss from injury to goods and machinery due to strikes or inexperience of new employes; table O, the number of establishments closed or in which work was partially suspended; table P, the number of firms reporting a discrimination between union and non-union men for four years, 1886 to 1889; table Q, the number of arrests and disposition of cases; table R, the number of women and girls engaged in strikes; table S, the number of establishments affected by and the number of persons

engaged in strikes, lockouts, and boycotts in each county in the state; table W, the number of establishments reporting a boycott, for four years, 1886 to 1889. A summary for the whole period is given for each table. Two additional tables, one arranged by years, the other by causes, give, by trades and industries, the number of establishments involved, the results, and the number of persons engaged in strikes.

Strikes and boycotts, 1889 (306 pages).—This is a textual and statistical consideration of strikes, lockouts, and boycotts in the state during 1889. Tables, designated by letters, running from A to W, give in the main for 1889 the same facts which are presented in corresponding tables under the head of Strikes for five years, 1885 to 1889, immediately preceding this topic. In addition to these, a table gives the number of boycotts for the year, their causes, duration, and results; and a general table, arranged according to occupations, the cause of each strike, lockout, or boycott, the number of establishments involved, the duration, the number of persons engaged, the number of persons remaining at work, and the number refused work after strike, etc., the results and mode of settlement, the loss to employers, the amount lost in wages, and the total cost to labor organizations. The text gives a description of the principal strikes, lockouts, and boycotts during the year, by industries, with tables giving the price list of wages of silk ribbon weavers, and average wages of carpet workers in 1877, 1878, 1883, and 1887.

Labor legislation, 1888, 1889 and 1890 (37 pages).—Copies of laws affecting labor, passed by the state legislature, are here given. They relate to mechanics' liens; provide for industrial education; relate to drainage and plumbing; provide for licensing employment offices; relate to the employment of apprentices; abolish the convict contract system; provide for the proper employment of convicts; regulate the pilotage of the port of New York; provide for the payment of wages in legal tender; relate to the payment of wages in scrip; provide for the protection of trade marks; regulate the hours of labor of women and children in factories; limit the age of children employed in factories; require fire escapes for factories; provide for the safety of employes in factories; demand all accidents to be reported; regulate the length of meal time for employes; provide for the health and comfort of female employes in factories; secure the wages of female employes; prohibit intimidation of voters; provide for the weekly payment of wages; for the health and safety of employes in mines; and prohibit the manufacture of hats also typesetting and printing by convicts; etc.

EIGHTH ANNUAL REPORT, 1890.—[2 VOLS., 1211 PAGES.]

Introduction (4 pages).—This briefly discusses the agitation of labor questions, and contains an outline of the work accomplished by the bureau during the year.

Claims of labor (740 pages).—This topic treats of the agitation for an eight-hour day and its effect on labor interests. There are given a vast amount of statistical data and general information bearing directly upon the subject; an elaborate historical sketch of the agitation for shorter hours that has been going on at the hands of organized labor during the past century, in which a summary of the legislation sought and obtained in this and various foreign countries is set forth; female and child labor in Europe and its effects upon population; and a review of the hours of labor, wages, and general condition of wage-earners in the several trades and occupations, including shops, stores, mills, and manufacturing establishments of the state, from 1882 to 1890, and, as far as possible, the facts relating to persons engaged in trade and commerce. The review of hours of labor and wages, part of which is given in tabular form, is based on returns of trade and labor organizations of the state, and shows separately for each trade or occupation the daily wages and hours of labor, and, for some industries, also the number of employes and the highest and lowest wages paid, etc. This is followed by accounts of cigarmakers' strikes, from 1886 to 1889, and of woodcarvers' strikes, caused by differences regarding hours of labor,

from 1885 to 1889. Other divisions of the subject investigated are: Early closing and the Saturday half-holiday; facts and official opinions elicited from organized labor as to the feasibility of enforcing eight hours as the standard day's work, and the effect of such a law on workmen out of employment, on immigration, on the working force, on wages, and on retail storekeepers; opinions of statesmen, literary, and professional men, and distinguished writers on economic questions in this and foreign countries; the relation between hours of labor and wages, given in tabular form; the effect of the introduction of machinery on labor and its displacement; laws and reforms suggested by labor organizations or their official representatives; and copies of laws of various states regulating the hours of labor of men, women, and children.

Strikes and boycotts (430 pages).—This subject embraces a textual and statistical consideration of strikes and boycotts that occurred in the state during the year 1890. The strikes investigated include 6,258 establishments, employing 93,894 persons.

Tables, designated by letters, running from A to W, present the facts obtained in a manner similar to corresponding tables under the head of Strikes for five years, 1885 to 1889, given in the report for 1889. In addition to these, a table gives the number of boycotts for the year, their causes, duration, and results; and a general table, arranged according to occupations, the cause of each strike, lockout, or boycott, the number of establishments involved, the duration, the number of persons engaged, the number of persons remaining at work, and the number refused work after strike, etc., the results and mode of settlement, the loss to employers, the amount lost in wages, and the total cost to labor organizations.

The text gives a description of the principal strikes, lockouts, and boycotts, by industries.

NORTH CAROLINA.

FIRST ANNUAL REPORT, 1887.—[251 PAGES.]

Act establishing bureau and introduction (7 pages).

Employés' returns (47 pages).—A textual consideration of the condition of labor in the state is herein presented, together with extracts from workmen's returns, and two statistical tables, which embrace about one-half the returns, giving the average wages of employés, by counties and mechanical occupations, with the general hours of labor prevailing in each county; and by counties and occupations, for individuals, their hours of labor, earnings, rent, cost of living, time lost, the number owning houses, the number in family, etc.

Miscellaneous employers' returns (26 pages).—This constitutes a brief textual consideration of the industries in nearly all the counties of the state, views of employers as gathered from their returns, and a statistical table, ten pages in length, giving, by counties and individual establishments, other than for cotton and tobacco, the number of months they were in operation during the year, their capital, the value of their product, the number of employés, the percentage owning their homes, the average wages paid for skilled and unskilled labor and for the labor of women and children; times of payment of wages, the hours of labor, and condition of employés, etc.

Landlords' returns (40 pages).—A general textual consideration of farming in the state is here presented, with views of landlords on various subjects taken from their returns, and a statement in tabular form, giving, by counties, the average wages paid farm laborers, by sex, and the educational, moral, and financial condition of farm labor in the state.

Farm tenants and laborers (23 pages).—General text, with views of tenants and farm laborers, and a four-page table compiled from returns of farm laborers and tenants, giving, by counties, the average wages received, the amount paid for rent, the general condition, etc., of farm laborers in the state.

Cotton manufactories (14 pages).—Under this head is given a general textual account of the manufacture of cotton in the state, embracing the views of cotton mill employers and employes on various subjects as given in letters to the bureau; and two statistical tables, six pages in length, one giving, by counties, the average number of hours worked per day, the daily rate of wages, by classes of occupations, sex, and age periods, and the general condition of employes in cotton mills; and the other showing, by counties and classes of goods manufactured, the number of spindles and looms, the amount of capital employed, of cotton consumed, and value of product, the number of men, women, and children employed, their condition, etc., in thirty-one mills making reports to the bureau.

Tobacco manufactories (9 pages).—This consists almost wholly of two statistical tables, based on returns from employers and employes in forty tobacco factories, giving, by counties and establishments, the character of the product, the number of employes (men, women, and children), and the average wages of each, by classes of occupations; the frequency of payment of wages, whether in cash or trade checks, the hours of labor, the number of months the establishment was in operation, the amount of capital employed, the amount of leaf tobacco consumed, the amount and value of the product, etc.

Railroads (9 pages).—Statistical tables are presented, giving, for each of the eighteen railroads in the state, separately, the number of employes and their average wages, by occupations, and in most cases their hours of labor.

Convict labor (44 pages).—This is a general textual consideration of the different methods of employment of convicts, and includes copies of a large number of letters from prison officials, mechanics, and manufacturers within the state, and from prison authorities in different states of the Union. A two-page table is also given, showing the location of the state prisons of certain states, the system of working the convicts in each, the number of years such system has been in use, other systems which have been tried, the system preferred, the hours of labor of convicts, and the articles manufactured.

Labor and social organizations (19 pages).—A general textual treatment of the subject is given, containing accounts of the Knights of Labor, the Farmers' Alliance, and the Patrons of Husbandry, and statements of their principles, etc.

SECOND ANNUAL REPORT, 1888.—[440 PAGES.]

Introduction (6 pages).

Reports from mechanics (144 pages).—This topic consists of brief general text, numerous extracts from letters of mechanics on various subjects, and two statistical tables 47 pages in length, giving, by counties, the occupations of individual mechanics reporting to the bureau, their hours of labor, their wages and how paid, the number of days lost through inability to obtain work, the price paid for board, the amount of rent, the number in family, their educational and moral condition, etc., and a recapitulation, giving, by counties, the average hours of labor, the average wages, the average rent paid, the average number of persons in a family, etc.

Reports from mechanical and other employers (65 pages).—This subject is devoted to views of employers of mechanics and others, and a statistical table covering 22 pages, based on returns received from 421 establishments gives, by counties and individual establishments, their capital, the number of months they were in operation during the year, the number of employes (men, women, and children), the value of the product, the wages paid each class of labor, their hours of labor, the percentage of wages paid in cash and in merchandise, the cost of board, and the general condition of employes, etc.

Apprentices (41 pages).—Under this head are given a general textual consideration of the apprenticeship law of the state; opinions obtained from the clerks of the superior courts of the state, from mechanics and others, as to its practical workings; and a compilation of the laws of the state relating to apprentices, and of apprenticeship laws of other states.

Manual and technical training (23 pages).—A copy of the act creating an industrial school, and a general textual consideration of manual and technical training, embracing extracts from a number of addresses and papers on the subject.

Public roads (103 pages).—This embraces a general textual consideration of the necessity of good roads; numerous extracts from correspondence on the subject, arranged by counties; extracts from road laws of other states; a synopsis of the road law of North Carolina; and a tabular statement of the rates of taxation in various counties in different states for state, county, school, road, and other purposes.

Agricultural statistics (43 pages).—Under this head is presented general text, followed by extracts from the correspondence of 229 farmers with the bureau, and a statistical table 12 pages in length, giving, by counties and individuals, the number of acres in each of the 229 farms, the value of each, the number of acres cultivated, the expenses of farming in detail, the value of farming implements, stock, etc., the value of the crop, its value in relation to the cost of its production, the number in the family, etc.

THIRD ANNUAL REPORT, 1889.—[291 PAGES.]

Introductory (3 pages).—This is in the nature of a letter of transmittal, and contains an outline of the work performed by the bureau during the year.

Agricultural statistics (135 pages).—The statistics in this chapter are based on the crop of 1889, and are made up of returns received from 224 farmers, arranged by counties, giving for each farmer reporting the number of acres in his farm and its value; the number of acres cultivated by him, and their value; the value of farming implements and other personal property; the value of the products; and the expense of the farm in labor, wages, fertilizers, etc. A number of returns gives additional information, such as the value of land per acre; the acreage in particular crops, and the products and value of the same; the wages paid day hands; the wages paid hired help, etc.

Public roads: Reports and views of road supervisors (77 pages).—This part of the report gives the replies of justices of the peace who are, under the law, the supervisors of the roads in their respective townships, in answer to circular letters sent them by the bureau, with reference to the condition of the public roads and the methods of working them. The replies show the efficiency or inefficiency of the old system of working roads; preferences as to methods of working roads; satisfaction or dissatisfaction of the people with the present system, and their preference as to methods. Suggestions are also made for the improvement of the road laws and of the roads.

Public roads: Reports and views of physicians (22 pages).—Circular letters similar to the ones sent to justices of the peace, mentioned in the preceding chapter, were also sent to the leading physicians in different parts of the state. Their replies show preferences, as given in the preceding chapter.

Financial, moral, and educational condition of laboring people; reports and views of physicians (26 pages).—Under this heading are given brief general texts, and the replies of 191 physicians, from seventy-two counties, in answer to circular letters sent them by the bureau, concerning the condition of laboring men and women and their families. These replies show the financial and educational condition of the people, and whether advancing or retrograding; the proportion supplied with books and newspapers; and the number of public libraries in each county, with the number of volumes they contain. In addition, suggestions are made as to the best method of promoting mental, material, social, and moral prosperity.

Reports of mechanics and of laborers (22 pages).—This topic consists of numerous extracts from letters of mechanics on various subjects, and of a statistical table

giving, by counties, the occupation of individual mechanics reporting to the bureau the term of apprenticeship in their respective trades; their wages and hours of labor; their yearly earnings; the number of days lost through inability to obtain work; the price of board per month; whether owning a home, or, if renting, the amount of rent paid per year; the number of children of school age, and the number in attendance during 1888-'89; whether a member of any church, and the number in family who are members; whether supplied with books, the number of newspapers taken, etc. The report closes with a list of newspapers and periodicals published in the state, together with the place of publication.

FOURTH ANNUAL REPORT, 1890.—[319 PAGES.]

Introductory (14 pages).—This gives an outline of the work performed by the bureau during the year 1890, the methods pursued in its investigations, and arguments on the value of statistics and the utility of the bureau to the general public.

Cotton and woollen mills (78 pages).—This chapter gives the reports of proprietors of cotton and woollen mills and of persons employed in said mills. The first part, relating to the mills, shows for each of 46 establishments, its location, class of goods manufactured, the number of spindles and looms, power used, the number of days in operation, capital employed, quantity of cotton or wool consumed, the product, the amount paid for labor, the average number of men, women, and children employed and their average wages, hours of labor, house room for employes, educational and religious facilities, and literacy and illiteracy of employes, number owning homes, etc. The second part gives for each of 33 employes his occupation, whether he owns a home; daily wages, total annual earnings, days lost, number in family, cost of living, per cent. of increase or decrease of wages, number of children attending school, and the number working in factories, the wages of boys and girls employed in factories, and opportunities for education and public worship.

Tobacco factories (27 pages).—This chapter is made up of reports from manufacturers of tobacco and gives for each of 31 establishments, its location, class of goods manufactured, the number of days in operation, capital employed, the quantity and value of tobacco used, the value of the product, amount paid for internal revenue and for labor, the average number of men, women, and children employed, the wages of different classes of employes, and their educational, moral, and financial condition in general.

General manufactures (50 pages).—This part of the report contains the information gathered from the returns of 88 miscellaneous manufacturing establishments, showing for each its location, trade or business followed, the number of months in operation, capital employed, value of products, amount paid for labor, average number of men, women and children employed, and their average daily wages and hours of labor, per cent. of increase or decrease of wages, per cent. of wages paid in cash, merchandise, or orders, and the educational, moral, and financial condition of the laboring people in general.

Employes in tobacco factories, tanneries, etc. (42 pages).—The facts presented in this chapter are compiled from returns received from 54 persons engaged in various occupations, treating, in the main, of the same subjects, given in the second part of the first chapter, relating to employes in cotton and woollen mills.

Agricultural reports (105 pages).—This part of the report is made up of returns received from 156 farmers residing in different sections of the state, giving for each farmer reporting the number and value of acres in his farm, the number and value of acres cultivated by him, the value of farming implements and other personal property, the value of the products, and the expenses of the farm in labor, wages, fertilizers, etc. A number of returns give additional information concerning the agricultural interests of particular localities in the state. The report closes with a list of the newspapers published in the state in 1891.

FIFTH ANNUAL REPORT, 1891.—[367 PAGES.]

Introductory (2 pages).—This is in the nature of a letter of transmittal, and presents a brief review of the work performed by the bureau during the year.

Agricultural report (117 pages).—The statistics, in this chapter, compiled from reports received from farmers in different sections of the state, give information in reference to farm values and farm products, the cost of production, the per cent. of average crops, the acreage in particular crops, and the value of the same, the price of farm labor, and the general condition and efficiency of farm laborers.

Cotton and woollen mills (77 pages).—This chapter contains the information gathered from the reports of cotton and woollen mill proprietors, and from employes in said mills. The first part, relating to the mills, shows, for each one separately, its location, the class of goods manufactured, the number of spindles and looms, the power used, the number of days in operation, amount of capital employed, quantity of cotton or wool consumed, the quantity and value of product, the amount paid for labor, the average number of employes (men, women, and children), the average wages, hours of labor, and educational and religious facilities. The second part gives for each employe reporting his occupation, wages per day, and total earnings for the year, the number of days lost, frequency and mode of payment of wages, cost of living, opportunities for education and public worship, ownership of homes, etc.

Tobacco factories (20 pages).—This chapter is made up of information collected from the reports of manufacturers of tobacco in reference to the class of goods manufactured by them, the capital employed, value of products, amount paid for internal revenue and for labor, the average number of men, women, and children employed, hours of labor, wages of different classes of employes, and their educational, moral, and financial condition in general.

General manufactures (146 pages).—The information contained in this part of the report was collected from the reports of proprietors of manufacturing establishments other than cotton, wool, and tobacco, and of persons employed in various manufacturing establishments in different sections of the state, and relate to the capital employed in each establishment reporting, the time it was in operation, the value of products, wages of laborers, hours of labor, and the general condition of laborers and their families, both from the standpoint of the employer and of the employed.

The report closes with a list of the newspapers published in the state in 1892.

NORTH DAKOTA.

FIRST BIENNIAL REPORT, 1889 AND 1890.—[227 PAGES.]

Introductory (14 pages).—This is a statement of the duties of the commissioner; of the difficulties encountered in gathering reliable statistics, with some suggested remedies; of the value of statistics, and, in conclusion, of the returns received from each county.

Sugar beets (14 pages).—Under this head are given the results of an investigation by Prof. Babcock, of the State university, concerning the culture of sugar beets in North Dakota. The report contains tables giving analyses of different soils in the state, and of soils from various parts of France and Russia where beets are cultivated, and also of samples of beets raised in North Dakota.

Coal (16 pages).—This is a report made by Prof. Babcock concerning the deposits of coal in the state. It embraces local descriptions and analyses, with a number of diagrams, showing the character of the formation in the different localities described; and a table giving, by counties, the number of mines in the state, the output of

coal, the number of employes, the price per ton paid for mining, the amount of capital invested, and the weekly wages of employes.

The sheep industry (4 pages).—This is a brief statement of the information received from stockmen and others informed on the subject concerning stock raising in North Dakota, with especial reference to sheep.

Crop reports for 1890 (20 pages).—In this chapter statistical tables are presented, based on returns from 134 farmers in different parts of the state, giving, by counties, so far as reported, the number of acres and average yield of various farm products in 1890; and the quantity of wheat raised in each county in 1880, 1885, and each year from 1887 to 1890.

Vital statistics (4 pages).—These statistics are presented in tables showing, so far as reported, the number of marriages, births, and deaths in each county of the state; the nationality and age of parties married, by counties; the nationality of the parents of the children born; and the number of deaths in each county by nationalities, age periods, and causes of death.

Temperature and precipitation, 1889 (1 page).—Under this head are presented statistics concerning the temperature and rainfall at the various signal service stations in the state during 1889.

Farm statistics (14 pages).—These statistics show, by counties, the size and value of farms; the acreage sown and the yield of the different crops for the year 1889; the number of acres to be sown or planted during 1890; the quantity and value of dairy products during 1889; the live stock on hand in 1890; and the number of acres in orchards, berry fields, and vineyards.

Ownership of real estate by individuals as distinguished from corporations (2 pages).—A single table is here given, showing, by counties, the assessed valuation of real estate in North Dakota, so far as reported, and of the real estate owned by individuals and by corporations.

Municipal indebtedness (2 pages).—Under this head is presented a table showing, by counties, the amount of the county, city, township, and school-district indebtedness.

Deaf and dumb, blind, idiotic, and insane (1 page).—A table showing, by counties, the number of deaf and dumb, blind, idiotic, and insane in the state on the first day of May, 1890.

County finances, 1889-'90 (89 pages).—Statistical tables are here given, showing, for each county, its bonded and floating indebtedness, and cash in treasury, each year from 1885 to 1890; its assessed valuation, each year, from 1880 to 1890, and an abstract of the assessment of real estate and of personal property in 1890.

Population (3 pages).—A table based on census reports gives the population of the state in 1880, 1885, and 1890, by counties; also the increase of the population of Bismarck, Fargo, and Grand Forks in 1890 over that of 1880.

School statistics (9 pages).—Nineteen of the thirty-eight county superintendents of schools furnished the reports requested by the bureau, and these reports are here presented in tables, which show, by counties, the number of schools in each; the number of teachers and their average salaries; the number of scholars; the value of school property; the receipts and expenditures for school purposes, etc.

Mechanical and manufacturing industries (2 pages).—A single table gives, by industries, the number of establishments reported; the amount of capital invested; the average number of employes, and their average weekly wages; the value of the raw material used and of the finished product for the year ending June 30, 1890.

Educational, religious, and charitable institutions (3 pages).—A table gives, for each institution of this kind, exclusive of state institutions and those supported by public funds, its location, character, the value of its property, the date it was opened, the number of students or inmates, and the cost of maintaining.

Church statistics (11 pages).—Tables under this head give, by counties, for each denomination, so far as reported, the value of church property; the number of communicants; the salaries of pastors, etc.; the amount raised for missionary purposes,

and the number admitted to the church during the year ending June 30, 1890; also, by denominations, the number of Sabbath schools in the state; the total enrollment; the average attendance; and the amount of money raised and expended.

Public lands (3 pages).—Under this head are tables giving, by counties, the number of acres of land subject to entry in each United States land district of the state, October 1, 1890.

Railroad lands (1 page).—Showing prices of railroad lands in the state.

Farmers' institutes (2 pages).—Under this head the establishment of farmers' institutes is recommended.

Postal guide of North Dakota (4 pages).—This is an alphabetical list of post offices in the state, October 1, 1890.

Relief appropriation (1 page).—The text is here given of an act, passed by the legislature in 1890, to appropriate money for the relief of the destitute, and a statement of the amount expended according to the provisions of the act.

OHIO.

FIRST ANNUAL REPORT, 1877.—[355 PAGES.]

Introduction (12 pages).—A copy of the act creating the bureau; copies of blanks issued to employers and employes throughout the state, with a statement of the information obtained; and a general consideration of the industrial situation of the state, with the text of certain recommended laws for the protection of the laboring classes.

Labor (28 pages).—A brief historical sketch of labor, and of the rise, growth, and results of trades unions in this country and Great Britain, with a list of trades having national organizations in the United States since 1859, followed by tables taken from the United States census of 1870, showing the total number of employes in the United States and in Ohio with percentages, by sex, age periods, and general classes of occupations.

Manufactures (220 pages).—A textual and statistical consideration of the different industries of the state and the conditions of labor in each, based on returns from the blanks issued, each industry being considered separately. The iron industry is classified under three heads, Blast furnaces, Rolling mills, and Foundries and machine shops. Under Blast furnaces is presented a sketch of their growth in the United States and in Ohio, illustrated by statistics showing the production of pig iron in the United States for various years from 1810 to 1876; the same for Ohio during the years 1872 to 1876, by localities; and the United States imports of pig iron from 1871 to 1877. Then follows a table giving the blast furnaces in Ohio, by name, location, and date of erection, and showing by whom they are operated, their annual capacity, and fuel used. A recapitulation presents the total number of blast furnace employes for the year ending July 1, 1877, and the number employed at each furnace with the average wages, by occupations; and fourteen pages of text embracing remarks taken from the blanks returned, and a report on the new iron district of Ohio. Under Rolling mills are given statistics showing the production of rolled iron in Ohio from 1873 to 1876, by articles produced; the production of rails in Ohio from 1867 to 1876, by years; the production, importation, and probable consumption of rails in the United States, by years, from 1867 to 1876, followed by a table giving a list of rolling mills in Ohio, by name, location, date of erection, capacity and kind of product, with the number of employes and their average wages, by occupations. A table of employes' returns gives, by individuals (22), their occupation, hours of labor, time lost, total yearly earnings, per cent. of reduction since 1872, how wages are paid, and size of families. The text embraces an account of several experiments

in industrial partnerships in rolling mills. Under Foundries and machine shops are tables giving a list of establishments, their location, the amount of work done, and the number and wages of employes, by occupations; and returns from employes giving their wages, hours of labor, and number in family. Considerable space is devoted to a textual and statistical consideration of the condition of coal miners and an account of labor troubles among them; a consideration of the system of paying wages in scrip, illustrated by communications from various counties where it is in force, etc. The text of certain laws of this and other states relating to payment of wages, etc., is also given. The other trades (shoemakers, glassworkers, carriagemakers, etc., coopers, furnituremakers, potters, paper mill employes, and miscellaneous) are treated textually and statistically, much in the same manner as the iron industry. Tables give a comparative statement of the number of employes, the amount of capital and value of product of the boot and shoe industry of Cincinnati, from 1873 to 1876; returns of employes showing their number, time worked, and wages; also for eleven establishments in Cincinnati, the height of building, number of employes, number under sixteen years of age, and means of escape in case of fire. For the tobacco and glass industries the text, illustrated by various tables based on employers' and employes' returns and the United States census of 1870, shows the amount of product, number of employes (men, girls and boys), time at work, and wages. Accounts of a number of strikes are given in this part of the report.

Arbitration (18 pages).—Consists of a textual consideration of arbitration in this and other countries, with statistics illustrative of its extent and results; also, the law of England on the subject.

Railroad employes (17 pages).—This is a textual and statistical consideration of railroad problems. The tables give the number of employes on various railroads in Ohio, by roads and occupations; the number of miles run and wages paid engineers on passenger and freight trains on each of the roads named; and in separate tables for each road, the wages, hours of labor, earnings, and miles run by employes, by occupations; and a list of railroads, with their capital, number of employes, and mileage, in Ohio, controlled by the Pennsylvania Railroad Company; and a similar list of the roads controlled by the Baltimore and Ohio Railroad Company.

Average weekly wages in Ohio in 1877 (4 pages).—A table giving the average weekly wages, by industries and occupations, for over 20,000 employes, as reported by employers.

Earnings and expenses (9 pages).—Statistical tables, with brief descriptive text, giving the returns of sixty-one families, showing their occupations, yearly earnings, expenses for the year in detail, the excess of earnings or expenses, and the number in family. Also, specimen tables of returns showing the number in family, the number of rooms in houses, the amount of earnings for the year, and per cent. paid for rent; and others showing the per cent. of possible earnings paid for rent in various parts of the state.

Agriculture and colonization (11 pages).—Under this head are presented various facts based on information furnished by county auditors and presidents of agricultural societies from fifty-nine counties. This information is presented in three tables, and shows, by counties, the number of acres of cleared uncultivated land and of woodland; the average price per acre for different lands; the principal productions of farms and prices at nearest market town, and the average distance to such town; the prices of farm stock and the number of men who could find steady employment as farm laborers, with average wages.

Prison labor (17 pages).—This is a textual consideration of prison labor showing the results obtained from various systems and the effects upon the state, the prisoners, and outside establishments, with a partial list of contracts for convicts, showing the number contracted for and prices to be paid, and concluding with the outline of a plan to make the penitentiary a reformatory institution and self-sustaining.

Cooperation (13 pages).—A textual consideration of cooperation, with extracts from the returns made by the cooperative societies of Great Britain, for the year 1875, showing the progress of cooperation in that country; a brief account of the existence of cooperation in Ohio, illustrated by a copy of the balance sheet of a cooperative association of Akron for 1877, and textual accounts of the Sovereign Cooperative Association of Leetonia; the Salem Cooperative Association, and the Norwalk and Cleveland cooperative stores; and a general outline of the operations of cooperative insurance associations.

SECOND ANNUAL REPORT, 1878.—[332 PAGES.]

Introduction (17 pages).—This consists of a general statement of the work accomplished by the bureau during the year, illustrated by tables showing the number of blanks issued to and the number returned by employers in the different industries of the state, with two tables based on these returns, showing, by occupations, first, the number employed and the average number of weeks employed, weekly wages and weekly earnings; and second, a classification of employes according to the number of weeks employed. Then follows a textual account of the general industrial condition of the state.

The labor question (20 pages).—A textual consideration of poverty and remarks on the general condition of labor, with two short tables from the United States census of 1870, showing the amount produced by labor and the amount it receives as shown for the state; also a brief account of the rise and development of labor bureaus, showing why they were necessary and their true object.

Coal mines (23 pages).—Under this head is presented a textual and statistical account of the general condition of coal miners in Ohio during the year. First in order are tables, based on information furnished by employers, showing, by counties, the number of employes, average time employed, average monthly wages, and the number owning their homes and those living in company houses. Then follows a comparison of the Ohio mine employes' wages with those of the five adjacent counties of Pennsylvania, by means of a table prepared by the Pennsylvania bureau of industrial statistics and tables based on returns from Ohio coal miners; one of the latter shows also the average expenses in detail for one year. Ten pages of text contain accounts of the strikes which occurred during the year; the condition of schools and children; the increase in the number of miners; their homes and need of libraries and reading rooms; and an account of an attempt at cooperative coal mining in Ohio in 1874.

Arbitration (6 pages).—A textual consideration of the advantages of arbitration and the opinions of various employers and employes on the subject.

The iron interest (44 pages).—Under this head is presented a statistical account of the condition of the iron industry of the state with brief textual comments. A large number of short tables show the growth of the blast furnace industry of the state, by years, from 1829 to 1877; a list of blast furnaces in Ohio, by name and location, with the number of employes, and a summary, by counties, showing the number of stacks and fuel used; the number and weekly wages of blast furnace employes in 1878, by occupations; the production of bituminous coal or coke pig iron and of charcoal pig iron, by districts, for each year, from 1873 to 1877; the condition of blast furnaces in Ohio in 1878, by districts; the stock of pig iron unsold at the close of each year, from 1874 to 1877, at furnaces in Ohio; the condition of blast furnaces of the United States, by states, in 1878; a list of rolling mills of the state, by counties and name, with capacity, number of employes, by occupations, and their wages; the product of rolling mills, by classes of goods produced, from 1874 to 1877; the scale of prices agreed upon in the Mahoning valley and at Portsmouth and Cincinnati; the scale of prices adopted by nailers and nail manufacturers on February 11, 1873; the scale in force in 1878; a statement of the number and location of nail machines in the state; the number of ore and coal miners (men and boys), and their wages; the num-

ber and wages of employ^{es} in the Lake Shore and Michigan Southern Railroad shops at Cleveland, by occupations; a table for each of the various iron industries giving the number of employ^{es} and their average wages, by establishments, classified as skilled laborers, unskilled laborers, and boys; and in a few cases a comparison of wages paid in 1877 and 1878.

Payment of wages (15 pages).—This is a textual discussion of the system of paying wages in scrip, with an account of legislation by the Ohio general assembly and extracts from communications on the subject from both employers and employ^{es}.

Manufactures (84 pages).—A statistical consideration of the different industries of the state, with textual comments, based on data gathered from manufacturers. Tables give, by establishments making returns, the number of employ^{es}, classified as skilled, unskilled, boys, girls, etc., and their wages. In the cases of glass, carriage, railroad, steamboat, brewery, building trades, hotel, and printing employ^{es}' wages are given by occupations, and in a few cases by location. A brief review of the canal industry of the state is given. For many industries and establishments the number of weeks in operation in 1877, the date of commencing business, hours of labor, and the amount of product for a number of years, or the total paid out for wages during the year are given. A few special tables give the number of employ^{es} in glass factories of Ohio and of Pennsylvania in comparison, and their average wages, by occupations, the number of cooperative establishments in the state, and the number of employ^{es}, by counties, for 1860 and 1870, from the United States census of 1870.

Cooperation (6 pages).—A textual consideration of cooperation, containing plans for the operation of cooperative stores, and one short table giving reports of five such stores in the state, showing capital stock, expenses, receipts, and profits.

Oil refining (2 pages).—A textual consideration of the condition of men engaged in oil refining in the state.

Female labor (9 pages).—A textual and statistical consideration of female labor in the state, based on returns previously considered in this report. By means of short tables are shown the number of women employed, by industries, average time employed and their average wages, the average hours of labor and wages in laundries of Cincinnati; the number of employ^{es}, by sex, and their average wages, in shirt factories; a comparison between male and female labor in dry-goods stores; number of employ^{es} and their average wages in clothing, millinery, hosiery, and corset establishments.

Employ^{es}' returns (15 pages).—Under this head is presented a table, compiled from information furnished by employ^{es}, exhibiting, by individuals, the occupation, method of work (day or piece), wages, hours of labor, time lost, number in family, and manner in which the wages are paid, with recapitulations, by industries, and a comparison of day workers with piece workers. Textual comments and extracts from employers' returns are added.

The cost of living (13 pages).—This is a textual and statistical inquiry concerning the cost of living. The information gathered is presented by means of tables and explanatory text, as follows: The earnings and expenses, in detail, of forty-three families in Ohio, with the amount of surplus or deficit, and size of family; the cost of living in Prussia, giving the percentage of the total expenditure for each of the necessities of life, and the same for Massachusetts in 1875; the itemized expenses, with the per cent. of total expense for each item, of families in Ohio, classified according to the annual expenditures; a comparison of the items and per cent. of total expenditures for the years 1877 and 1878; the prices of common articles of food in 1861, 1871, and 1878, with some deductions therefrom; a table prepared by the United States Statistical Bureau, showing, in detail, the items of expenditure of mechanics in Ohio in 1874; the itemized expenses of a Cleveland mechanic's family for one year, and, in conclusion, an extract from the report of the Massachusetts bureau of labor statistics for 1875, showing the yearly average cost of living in that state.

Hours of labor (28 pages).—A textual account of the investigation of the bureau concerning the results in this and other countries of agitation in favor of reducing the hours of labor, comprising copies of various laws regulating the hours of labor, with the effects in cases where the laws have been enforced; a consideration of child labor, with a short table from the census of 1870, showing, by occupations and sex, the number of children between the ages of ten and fifteen employed in the state; also a table giving the number of establishments and value of products in the boot and shoe industry, and in the cotton and woollen mills of Massachusetts for the years 1845, 1855, 1865, and 1875, showing the increased production by means of machinery; and closing with extracts from the opinions of various employers and employes upon the subject.

Sanitary (6 pages).—A textual and statistical description of the sanitary condition of the laboring classes in Cincinnati, compiled from data collected by the board of health of that city. Tables are presented showing the number of tenement houses in the city, by wards; the surroundings of those who died with, or were attacked by, cholera, outside of hospitals, in 1873; the number dying during the epidemic of scarlet fever in 1874, by months, according to character of habitation; and the number of deaths, by months, in 1874, 1875, and 1876, according to classes of houses in which they occurred.

Prison labor (8 pages).—A textual consideration of convict labor in the state, with reports and statistics from various prisons in the United States, presented in order that the subject may receive the attention of the general assembly.

Apprentices (7 pages).—A historical consideration, all text, of the system of apprenticeships, showing its advantages, and the effect of the introduction of machinery, and other causes of its general disuse.

The industries of Cincinnati (7 pages).—A comparative statement of the value of products and the number of employes in each industry of the city from 1875 to 1878, and a table giving the number of employes, by industries, for the years 1840, 1850, 1860, 1870, and each year, from 1872 to 1877, prepared by the secretary of the Cincinnati board of trade.

Labor in Europe (7 pages).—Statistical tables from United States consular reports, giving the rate of wages, by occupations, in Liverpool, Newcastle on Tyne, and Birmingham, England; and Nice, Saint Étienne, and Lyons, France, in 1878; and in Sidney, New South Wales, in 1876; and cost of living, in detail, at Liverpool, Birmingham, Nice, and Sidney for the same years for which the rates of wages are given.

Labor legislation (7 pages).—This is a compilation of the laws of the state regulating the hours of labor; the hours of labor of women and children; relating to cooperative trade associations; establishing a bureau of statistics of labor; relating to the payment of wages in scrip; to the practice of resorting to distant courts to evade the exemption laws; securing wages in cases of assignment; providing for exemption from execution and attachment; prohibiting stay of execution on judgments for wages; and providing for the creation of incorporated companies.

THIRD ANNUAL REPORT, 1879.—[320 PAGES.]

Introduction (11 pages).—A textual account of the work accomplished by the bureau during the year, illustrated by tables showing, by occupations, the number of employes in each, their average wages, and time of employment, as ascertained from returns made by employers; and brief remarks on the general condition of labor in the state, with a list of the states having bureaus of labor.

The iron interest (44 pages).—This consists almost entirely of statistical tables, the textual comments being very brief. The tables are short and compiled for the most part from data furnished by employers and partly from official reports. They show the name and location of blast furnaces in Ohio, with the number of employes and their wages; a recapitulation, by counties, giving kind of fuel used and total stacks; the advance in the price of pig iron during the year; the comparative condition of

blast furnaces in 1878 and 1879; the production of pig iron, of bituminous coal and coke, and of charcoal iron, from 1873 to 1878, and the amount in hands of producers unsold at the end of each year; the condition of blast furnaces in the United States, by states, in 1879; the itemized cost of making pig iron; the price of pig iron at various dates during 1879, and for the years, 1864 to 1879; a list of rolling mills in the state, by counties and names, with number of employes and their wages, by occupations; the product of rolling mills by classes of articles produced, from 1874 to 1878; the value of United States imports and exports of iron and its manufactures, by articles, for the years 1870, 1873, and from 1875 to 1878; iron and Bessemer steel rails rolled and kegs of nails made in Ohio, from 1874 to 1878; the price of nails at various dates, in 1878 and 1879; the scale of prices for boiling iron in Mahoning valley, and in Portsmouth and Cincinnati; the quantity of rails imported into the United States, the rate of duty and amount realized, from 1862 to 1879; exports of iron from Great Britain to the United States, from 1877 to 1879; also for each of the various iron industries, by establishments making returns, the number of employes (classified usually as foremen, skilled workmen, unskilled workmen, and boys) and their wages in 1879; also a comparison of the number of employes, for 1878 and 1879, with capital invested in 1879.

Arbitration (11 pages).—This consists of textual comments upon the change in the industrial condition of the state during the year, showing the disadvantage of not resorting to arbitration to settle differences between employers and workmen; and of copious extracts from the report of a special commissioner from Pennsylvania to investigate the English system of arbitration; and accounts of a successfully inaugurated effort at arbitration in the coal mines of western Pennsylvania and of an arbitration board in a cigar manufactory in New York city.

Coal mines (36 pages).—Under this head is given an account, mainly by means of statistical tables, of the general condition of the Ohio mining interests. First is presented the tabulated information furnished by mine operators, showing the number of mines, comparative production in 1878 and 1879, number of employes with a classification of them, the monthly wages, and average days of employment, by counties, so far as reported. From employes' returns tables were compiled showing, by individuals, the nationality, gross and net earnings, and size of families, with recapitulations, by counties and nationalities; a comparison of earnings and expenses of thirty-five families making returns; a statement of the value of property owned by those making returns, with the size of their families and yearly earnings and expenses; also several pages of text relative to the pursuits followed by miners' sons, and general remarks taken from employes' returns. Statistical tables also give a comparison of the cost in Canada of coal from different parts of the United States; the itemized cost of mining coal in two of the principal districts of England in 1878; the number and wages of miners in western Pennsylvania in 1878; the growth of coal mining in the Hocking valley from 1874 to 1879. Statistics are also given regarding the coal interests of the Jackson county region. Then follows a brief sketch of the results of miners' unions during the year, a summary of miners' answers to inquiries regarding the increase in wages; and the chapter closes with seven pages of text prepared by Andrew Roy concerning mines and miners in the state.

Payment of wages (17 pages).—Under this head is presented a textual account of the methods of paying wages in the state, with copies of laws enacted by the Ohio general assembly, intended to suppress the truck system, and numerous illustrations of the evils of that system, embracing communications from employes and outsiders in different parts of the state; also remarks concerning the attachment of wages, showing the way in which many workingmen are debarred the benefits of the state exemption law by being employed by corporations whose business extends outside of the state limits.

Miscellaneous manufactures, etc. (67 pages).—This consists of statistical tables with brief explanatory text, based on returns from employers, exhibiting the general con-

dition of various Ohio industries, each being considered separately. The tables give, by establishments making returns, their capital, amount paid in wages in 1878, the number of employes for 1878 and 1879, the number of weeks employed in 1878, and average wages of employes classified as skilled, unskilled, boys, females, and foremen, occasionally varying somewhat for different industries. The wages in building trades are given, by occupations and location, for 1878 and 1879. Tobacco factories are classified by revenue districts, showing the number of pounds of tobacco used and value of product. The wages of teachers are given by counties, sex, and character of school. In considering the boot and shoe industry a table is given showing the prices of different kinds of shoes in Cincinnati in 1879. Paper mills, furniture and wagon manufactories, potteries, planing mills, glass works, woollen mills, cotton mills, tanneries, and salt works are among the industries treated of, and the chapter concludes with statistical tables regarding railroads, giving the number of employes by occupations, from 1876 to 1878; the number of miles of road in Ohio, and the total number of employes, from 1873 to 1878; also the number of employes in each occupation, with a summary, by roads, for 1877.

Prison labor (8 pages).—A textual and statistical consideration of convict labor, beginning with the report of a committee appointed by the general assembly to investigate the convict labor system, with tables showing the number of prisoners, and number employed under contract in 1878, by states of the Union; the number employed in the Ohio penitentiary, by manufactures; and reports of the general condition of the workhouse and of the house of refuge at Cincinnati, and the Cleveland workhouse and house of refuge. Opinions of various wage-earners in different parts of the state relative to convict labor are also given.

The industries of Cincinnati (6 pages).—This is a statistical table showing comparatively the aggregate values of products and number of hands employed in each class of manufactured articles in the city for the years 1875 to 1878, with totals for years.

The leading industries of Akron (3 pages).—This is a textual statement with a statistical table giving for each industry of the city of Akron the number of establishments and employes and total wages paid.

Employes' returns (46 pages).—Under this head are presented statistical tables with textual comments, based on returns from employes, and copious textual extracts from those returns. The tables give the number of returns received, by counties and by occupations; by individuals, their occupations, years at present occupation and with present employer, manner of working, weekly wages, for the years 1860, 1872, and 1879, weeks out of work, for 1878 and 1879; the earnings of head of family and of other members in 1878, and the size of family, with a summary for all; also classifications of the returns made, by occupations and nationalities. Other tables give a comparison of wages in 1879 and 1872, by trades; a comparison of day with piece workers; a comparison of wages, by occupations, for the years 1860, 1872, and 1879; the weekly and yearly wages and time lost in 1878 in Cincinnati, and the same for Cleveland; for ninety-seven families, the size of each, amount of earnings and of expenditures in detail, with the excess of one over the other; the per cent. expended for each class of items for the total of ninety-seven families; the amount expended for each class, by nationalities; the average expense of each family and the same per person in each family; the number reporting an excess of expenditures over receipts or of receipts over expenditures, by nationalities; a tabulation of fifty-three returns from Cincinnati and thirty-seven from Cleveland, by salaries received, showing the per cent. of earnings paid for rent, the number of rooms occupied, and the number of families in each house, etc. A report of the health officer of Cincinnati shows, by wards, the number of tenement houses, number of rooms and families in them, average number of persons in each room, and the general sanitary condition; the percentage of deaths in tenements to total mortality, by causes; by wards, the area, population, population in tenements, and number of deaths to living population in 1878. Other tables show, by individuals, the occupations, time at trade, earnings

in 1878, number in family, and value of real estate owned, with recapitulations, by nationalities and by classes of occupations.

Farm laborers (4 pages).—A statistical table prepared from information furnished by officers of county agricultural societies showing, by counties, the supply of farm laborers, their wages according to the conditions under which they are employed, and the nationality of the majority in each locality.

Trade and labor organizations (9 pages).—A statistical table presents the results of inquiries made of trade and labor organizations in the state, showing, for each trade, so far as reported, the location of the organizations, number of skilled workingmen and their wages in 1872 and 1879; number of shops or employers; and the number employed or unemployed in 1879; textual extracts from the reports give further explanations.

Woman's work (10 pages).—A textual consideration of the condition of women wage-earners, and a table giving, by industries, the number of females employed and their average wages; followed by a number of statements from Cleveland papers regarding the situation in that city.

Building associations (4 pages).—A textual consideration of these societies, with tables giving, by years, from 1873 to 1879, the number of associations and their capital; the number of shareholders in 13 associations making returns; amount of their receipts and disbursements in detail for one year; and for the same associations the amount paid in per share, gain per share, and present value.

Cooperation (5 pages).—A general textual consideration of the subject, showing reasons for the failure of many attempts at cooperative production and accounts of various successful attempts.

Labor in Europe (17 pages).—This consists of text and tables compiled from consular reports and the letter of the United States Secretary of State transmitting them, giving the rates of wages and prices of commodities in European countries, and in Chicago and New York, by occupations and articles, in 1878; the wages, by occupations, of ironworkers in Sheffield and of glassworkers in Belgium, for the years 1872, 1874, and 1878; and a comparative summary of all the matter presented in the consular reports concerning the weekly rate of wages in foreign countries and in the United States.

Labor laws (15 pages).—This is a summary of the English factory law of 1878, and contains the Ohio labor laws, defining the duties and powers of the commissioner of labor; relating to mechanics' liens; regulating hours of labor; providing for arbitration of labor disputes; securing wages in cases of assignment; prohibiting stay of execution on judgments for wages; regulating hours of labor of women and children; providing for exemption from execution and attachment; prohibiting the practice of resorting to distant courts to evade the exemption laws; relating to the payment of wages in scrip; to intimidation of voters; and providing for exemption of wages from attachment.

FOURTH ANNUAL REPORT, 1880.—[304 PAGES.]

Report of the commissioner (8 pages).—This consists of general text, and a table giving a comparison of average wages in Ohio, by industries and occupations, for the years 1879 and 1880, and the number of weeks workingmen were employed in 1879.

The iron interest (62 pages).—A statistical account of the iron industry of the state, with brief textual comments. Tables give a list of blast furnaces in Ohio, by location and name, and the number of their employes, with a recapitulation, by counties, showing the total stacks, kind of fuel used, and annual capacity; the comparative condition of blast furnaces in Ohio, by years, from 1877 to 1880, and the same for blast furnaces in the United States (except Ohio), by states, for the years 1878, 1879, and 1880; the production of pig iron in Ohio, by districts, for each year, from 1874 to 1879, and of coal or coke and charcoal iron, each year, from 1874 to 1879; the stock of pig iron in the state unsold at the end of each year, from 1874 to 1879, and the annual supply

and sales of Ohio iron in those years; for each blast furnace making a return, the total weeks in operation, number of employes, in detail, with their weekly wages and hours of labor, and summaries of the average weekly wages of employes, by counties, and of miners of iron and coal; and the prices of pig iron at various dates during 1879 and 1880. Three pages of text follow, consisting of extracts from the annual report of the superintendent of the Cincinnati chamber of commerce. Tables are then presented giving a list of rolling mills in the state, by counties and name, with their capacity, machinery, and a description of their furnaces and number of employes; the increase of the rolling mills in the state, by date of erection, from 1832 to 1880; a classification of rolling mill employes, with their average wages; the product of rolling mills for each year, from 1874 to 1879, in Ohio and in the United States; also scales of prices for puddling iron adopted June, 1880, for a large number of mills; for mills in Cincinnati and Portsmouth; for muck rolling and for plate and sheet iron rolling in Cincinnati and Portsmouth in 1880; for nail making west of the Alleghenies; changes in the standard price list of the Western Iron and Nail Association, from 1864 to 1880; and a comparative statement of the imports and exports of iron and steel for the years 1879 and 1880, by articles. Tables based on returns from manufacturers of machinery and castings, of agricultural implements, and stoves, give, by establishments, their capital, product, the number of employes in 1879, with their total wages and weeks employed; also the number of employes in 1880, and a detailed statement of their wages, by classes. The returns of manufacturers of iron bridges, boilers, bolts, nuts, screws, etc., tools and miscellaneous iron, are also presented in a similar manner.

Labor troubles in Ohio (55 pages).—Under this head is presented a comprehensive account, mainly textual, of all strikes occurring in the state during the year 1880, with summaries showing the causes and results of strikes, by localities.

Coal mining (40 pages).—A textual and statistical report of the condition of the coal mining industries of the state during the year 1880. The text embraces a consideration of the miners' organizations and of mine screens; copies of several agreements made between operators and miners, some facts in addition to those presented in previous reports concerning the payment of wages in scrip, a list of prices at a number of company stores, etc. The tables give the production of coal from 1874 to 1880, by years, in the Hocking valley; the production of coal in the Hocking valley in 1880, and number of employes; the number of miners in the state, by counties, with a comparative statement of the production of 1879 and 1880; and a classification, by occupations, of employes; the wages of miners, by occupations and counties; the coal production of Ohio in 1880, and the number of employes, by counties, as given in the United States census of 1880. Tables based on employes' returns give, by individuals, their county, manner of working, hours of labor, time unemployed, earnings and discounts for the year, and number in family, with summaries, by counties; a list of dates of advances and reductions in wages, by location; an itemized statement of the expenses of thirty-eight miners' families, with a summary, giving their average expenditure, by items; also, the same compared with 1879, and a comparison of the total receipts and expenditures and number in family of mine employes for the years 1879 and 1880.

The building trades (45 pages).—This chapter presents statistical information concerning the building trades of Ohio, and also concerning various other industries of the state which do not properly come under this head. The matter is exhibited by means of tables, based on returns made by employers. The first nine pages consist of the tabulated answers received in reply to inquiries made of the principal builders of the several cities in the state, showing, by occupations, the wages paid in each city during the years 1878, 1879, and 1880; and textual extracts from the same source regarding the general condition of the building trades. Returns from 84 planing mills show, for each, its capital, value of product, total wages paid, number of employes, and the weeks in operation in 1879. The same information is given for Ohio glass works with the addition of the kind of glass made, and various summaries

showing the number of employes and their wages, in detail. The same kind of information concerning pottery, tannery, paper mill, and boot and shoe manufacturers' employes is presented in tabular form, and various other industries are treated together as miscellaneous returns.

Child labor and education (22 pages).—This is a textual and statistical consideration of the employment and education of children in the state, embracing reports made by the clerks of the district boards of education of the state; and copies of compulsory school laws enacted in other states, with the measure of success attending such enactments. Three comprehensive tables, covering eight pages, present the following statistics: The number of unmarried persons, with their color and sex, between the ages of 6 and 21 and between the ages of 16 and 21, in each county in Ohio in the year 1880; the number of schools, with number of rooms and teachers necessary; the number of children between the ages of 6 and 16, and the average number to each room, if all attended, in the several counties of the state; the average wages of teachers, by sex, and character of school taught, and the average number of weeks the schools were in session in each county.

Employees' returns (29 pages).—This consists of statistical tables based on returns made by employes in the state, with some textual extracts from their communications. Two short tables, giving the number of returns made, by localities and by occupations, are followed by one covering nine pages, showing, for each of 286 employes, during 1879, his occupation, manner of employment, wages and manner of payment, hours of labor, increase, if any, in wages since January 1, 1879, number of weeks idle in 1879, the earnings of the head of the family and of other members, and size of each family; with a summary, by occupations, and a comparison of this summary with corresponding ones for the years 1877 and 1878. A table covering 3 pages shows, for each of 114 families, its size, total earnings, and an itemized statement of its expenses for 1879, and the excess of earnings or expenses, with summaries showing, for each class of expenditures, the average amount expended and per cent. of total expenses per family; also for each class of expenditures the total and average expense, with percentages, divided according to the earnings of the families. Then follows a table comparing the foregoing summaries with corresponding ones made for 97 families in the report of 1879, and an itemized account of earnings and expenses for one year, kept by a Cleveland mechanic.

Trade and labor organizations (10 pages).—A list of trades unions in Ohio, with a textual report concerning them, and a tabulated statement of returns made by labor organizations, showing, by trades, their locations, number of employed and unemployed workmen in each, number of employers, daily wages of day and piece workers, with the number working in each manner, and the increase in number working and in wages in 1880 over 1879. Then follow four pages of text on the legal status of trades unions, embracing an extract from the report of 1879 regarding the discharge of employes at a glass works, their places being supplied by Belgians imported for that purpose.

Railroads (3 pages).—Under this head are presented two statistical tables, compiled from returns made to the railroad commission, giving the number of railroad employes in Ohio, by occupations, for each year, from 1876 to 1879; and for each road in the state, the number in each occupation in 1879, with a comparison of the total number of each road's employes in 1878 and 1879.

Prison labor (9 pages).—Tables taken from a Massachusetts labor report, giving, by industries and states, the number of convicts, male and female, employed, and the number of free laborers in the same industries, according to the United States census of 1870; a classification of work done by convicts; the number of convicts, by states and by systems of employment, with a United States total.

Boiler explosions (3 pages).—A list of boiler explosions in Ohio during the year 1880, and the same for the United States in 1879, with the number killed and injured; and a classification of boiler explosions which have been published as having occurred between 1867 and 1880 in the United States.

Sunday work (3 pages).—This consists of an extract from a letter received from a citizen of Toledo regarding the working of railroad employes in that city on Sundays, and a statement prepared by a member of the butchers' union, of Cincinnati, in relation to the hours of labor and wages of sausage butchers in that city.

The industries of Cincinnati (5 pages).—A tabulated report compiled from the United States census returns, showing, for the year ending June 1, 1880, for each kind of manufacture, the number of establishments, their capital, the amount paid in wages, the number of employes, value of material and product, with a summary, by general classes of industries.

Labor laws (8 pages).—This presents copies of labor laws from the revised statutes of Ohio defining the duties and powers of the commissioner of labor; providing for the education of children; limiting the age of children employed in mines; relating to mechanics' liens; regulating the hours of labor; providing for arbitration of labor disputes; securing wages in cases of insolvency; prohibiting stay of execution on judgments for wages; regulating the hours of labor of women and children; providing for exemption of wages from attachment; for exemption from execution and attachment; prohibiting the practice of resorting to distant courts to evade the exemption laws; relating to the payment of wages in scrip; and to intimidation of voters.

FIFTH ANNUAL REPORT, 1881.—[255 PAGES.]

Workingmen's returns (89 pages).—The information received from workingmen throughout the state is presented by means of statistical tables and textual extracts from their communications, embracing answers to questions regarding the employment of children, and general remarks and suggestions offered. Tables I and II, covering 42 pages, show for each individual reporting, other than those engaged in coal or ore mining, his location; occupation; manner and time of employment; wages and manner of payment; general condition of place of employment; cause, duration, and results of strikes engaged in; also the size, earnings, and expenses of the family, with a description, in detail, of the residence. Tables III, IV, V, VI, and VII give the same information concerning coal mine employes; and in addition treat of the fluctuations in the price for mining coal, the screening of coal, payment of wages, and company stores. Various short summaries of the matter presented in each of the preceding tables follow; and the textual extracts, covering 19 pages, complete the chapter.

Trade and labor organizations (4 pages).—Under this head are presented two statistical tables compiled from data furnished by secretaries of labor organizations. These tables show for each trade the location of its organizations, with the number of members and their average daily wages; condition of wages and employment as compared with 1880; a record of strikes during 1881; and the apprenticeship systems of various trades in the state.

Accidents, conflagrations, and boiler explosions (9 pages).—Under this head are presented brief textual statements concerning accidents to employes, conflagrations, and explosions occurring in Ohio during the year 1881, a classified list of the boiler explosions, a summary showing the number of persons killed and injured, and an ordinance of Cincinnati relating to fire escapes.

History of the Ohio bureau of labor statistics (1 page).

Manufacturers' returns (84 pages).—The information furnished by manufacturers is presented almost entirely by means of statistical tables, only four pages out of a total of eighty-four being text. Table I shows for all the industries of the state, except blast furnaces, rolling mills, and the building trades, their location, articles manufactured, value of product and number of employes, with their wages for 1880. Table II gives the same information concerning blast furnaces and rolling mills in 1881, and table III gives for all industries enumerated in tables I and II a classification of employes, with the number and wages of each class. Table IV treats of the general condition of the building trades in 1881 as compared with that of 1880.

Then follow a recapitulation of table I, one of table IV giving the average wages per day of building trades' employes, and one based on tables III and IV, showing the average wages in the various industries of Ohio, a table comparing the number of employes in each industry for the years 1880 and 1881, a list of new manufactories started in Ohio in 1881, a summary of strikes, with textual comments, and, finally, three pages of general remarks by employers.

Strikes and arbitration (23 pages).—A textual statement concerning strikes in general, followed by copious extracts from the report of Joseph D. Weeks to the governor of Pennsylvania concerning arbitration in England, and accounts of the street railway employes' strike at Cincinnati in 1881, and of the iron and steel workers' strike at Cincinnati and vicinity in 1881.

Education and crime (9 pages).—A textual report made to the National Educational Association by J. P. Wickersham, of Pennsylvania, concerning the influence of education upon crime.

Population of the United States classified (10 pages).—Tables compiled from census bulletins, furnished by the Superintendent of Census, show the population of the United States in 1880, by states and color; the number of colored people to every 100,000 whites, by states, for 1870 and 1880; changes in the relative negro population in the decade between 1870 and 1880; the number of Asiatics and Indians in each state; the population, by states and sex, and proportion of each, for 1870 and 1880; the excess of males or of females for each state in 1880, and changes in the relative proportion of the sexes since 1870.

Labor laws (14 pages).—Copies of laws relating to labor are here given from the revised statutes of Ohio, providing for the health and safety of employes in coal mines; limiting the age of children employed in mines; relating to mechanics' liens; regulating the hours of labor; providing for arbitration of labor disputes; securing wages in cases of insolvency; prohibiting stay of execution on judgments for wages; providing for the education of children; regulating the hours of labor of women and children; providing for exemption of wages from attachment; for exemption from execution and attachment; prohibiting the practice of resorting to distant courts to evade the exemption laws; relating to the payment of wages in scrip; and to intimidation of voters, etc.

SIXTH ANNUAL REPORT, 1882.—[358 PAGES.]

Street railway statistics (12 pages).—These statistics were compiled from information collected by the commissioner through personal interviews with officers of the companies and their employes in twelve cities in the state. Tables with textual comments show for each street railway in those cities the number of employes, their average wages, and hours of labor, by occupations.

Employers' and employes' returns (101 pages).—These returns are presented mainly by means of tables, the textual comments being brief. They cover nearly all the industries of the state, giving for each the number of employes, time of employment, and wages. The greater part of the report is devoted to statistics regarding the printing industry, building trades, including a comprehensive account of their strikes at Cincinnati in 1882; glass works and potteries, with an account of the East Liverpool lockout; coal mines, and iron and steel manufactories. The coal mine returns are very complete, presenting facts concerning the fluctuation in wages during 1882, the general condition of miners' families, the strikes which occurred during the year, and the payment of wages in other than lawful money, prices of commodities at company stores, etc.

Machinery manufacturing statistics (69 pages).—Under this heading are presented returns from 29 manufacturers of agricultural implements, 68 manufacturers of other machinery, 30 manufacturers of malt and spirituous liquors, 21 cigar and tobacco manufacturers, and 30 manufacturers of soaps, oils, paints, etc. The facts are presented in tables showing for each establishment, its location, the number of employes, and their average wages, by occupations.

Statements from workingmen (132 pages).—Under this head are presented statistical tables based on data furnished by workingmen throughout the state, and textual extracts from the returns. The tables are comprehensive and contain information concerning the various modes of employment, earnings of employes and manner of payment, strikes and advances in wages during 1882, and the general condition of workingmen's families, their homes and workshops. Separate tables for each industry show the number of employes, with their wages, arranged by occupations. The text contains copious extracts from remarks and suggestions of workingmen concerning the conditions of the industrial classes in the state, and an account of successful arbitration in the boot and shoe industry at Cincinnati.

Steam boiler explosions (7 pages).—This consists of textual comments by inspectors, engineers, and others competent to speak on the subject, relative to the causes and preventives of boiler explosions, and of tables giving lists of the explosions which occurred in the state and in the United States during 1882, with the number of persons injured.

Child labor (8 pages).—A textual consideration of child labor, with a statement of the proportion of children to the whole number of employes in the industries of the state, and a quotation from the report of the superintendent of public instruction of Columbus.

Recapitulatory comparisons and remarks (21 pages).—Recapitulations, by means of which the general industrial situation of the state in 1882 is compared with that of 1881, are presented with brief explanatory text. The tables give, by industries, the number of employes in 1881 and in 1882, and the number of establishments represented, the wages of employes in 1881 and in 1882, by industries and occupations, the wages of employes of street railway companies, by cities and occupations, the average annual earnings and expenses of employes in 1881 and in 1882, by occupations and localities, the number of returns represented in each average, and the prices of groceries, by months, for 1881 and 1882.

SEVENTH ANNUAL REPORT, 1883.—[320 PAGES.]

Commissioner's report (13 pages).—This is made up of a textual account of the hard times experienced by the industrial classes during the year and of statistical tables, which show in a general way the information collected by the commissioner during the year, regarding the average earnings and expenses of workingmen in the different industries of the state and the fluctuation of wages.

Statistics from workingmen (145 pages).—The information furnished by workingmen (other than coal miners) throughout the state is here presented in tabular form, with textual explanations. The tables, five in number, are long and comprehensive. Table I treats of the rates of wages and manner of payment; table II, of the fluctuation of wages; table III, of the means of egress from manufactories, with the law relating to fire escapes; table IV, of the earning and expenses of workingmen's families; and table V, of rents paid by workingmen and of the sanitary condition of workingmen's homes. The statistics for the different industries are presented in the following order: The building trades, iron and steel works, machine works, all classes of metal manufacture, wood factories, glass works, potteries, printing offices, and miscellaneous. The table for each industry is followed by a summary which, for the sake of comparison, precedes a summary of the same information for the year 1882. The textual comments follow each table in regular order. Those after table IV embrace the results of an inquiry concerning the employment of children, with a tabulated statement of the character of establishments in which children are employed, and 16 pages giving a résumé of accidents which occurred to workingmen in Ohio in 1883.

Statistics from coal mine employes (51 pages).—A tabulated and textual account of the general condition of coal mine employes and their families, based on the reports of the workingmen. The first table, ten pages in length, gives, by counties, for each employe, his occupation and manner of employment, wages and manner of pay-

ment, discounts and net earnings for the year, with a recapitulation with averages. The text is composed mainly of extracts from the communications of miners, for the most part relative to the different modes of paying wages, including several reports on the truck system and 12 pages of opinions condemnatory of the free-turn system. A table is also given showing for a limited number of mines the changes in the prices paid for mining coal during the year, and the chapter concludes with a table, by counties, showing for each miner the earnings and expenses of his family for the year 1883.

Labor troubles (42 pages).—This is a textual account of the difficulties that arose during 1883 between employes and employers, as reported to the bureau. Sixteen pages are devoted to an account of the lockout in the boot and shoe manufactories of Cincinnati, which began in May, and 12 pages are covered by reports from various counties relative to coal mine difficulties. The other disagreements were of minor importance. The chapter closes with an account of steam boiler explosions which occurred in the state during the year.

Report of the commission on examination into the contract labor system in the Ohio penitentiary (35 pages).—This is a textual report of information gained by the commission through personal visits to the various penal institutions, and by reports made by Ohio penitentiary contractors.

Report of the commission appointed to inquire into the system of screening coal (26 pages).—This is a textual report embracing the opinions of operators and of miners on the system of screening coal and on the modes of payment for mining coal, with some general remarks bearing on these subjects, and recommendations of the commissioners.

EIGHTH ANNUAL REPORT, 1884.—[324 PAGES.]

Report of the commissioner (4 pages).

The iron industry (7 pages).—This is a statistical account of the information received from operators of furnaces and rolling mills in the state. Tables are used to show the condition of the furnaces and mills in 1884; and also, by occupations, the number of employes and their wages in each.

General manufacturing statistics (229 pages).—Under this head is presented, in tabular form, with textual comments, the information received from employers in all the manufacturing industries of the state except blast furnaces and rolling mills. Two tables, with summaries, are used for each industry to show, first, the capital invested, time in operation in 1883, amount of raw material consumed, wages paid, value of product manufactured, and the number of employes in 1883 and in 1884; and, second, the average weekly wages paid each class of employes (foremen, skilled laborers, unskilled laborers, boys or girls, if any, and office help) for the years 1880 and 1884. The textual matter, which follows the second table in each case, is composed of the comments and suggestions of manufacturers in relation to each industry.

Statistics from mechanics (22 pages).—This is composed of four tables compiled from statistics furnished by mechanics throughout the state. Table I treats of the rates of wages and the hours of labor; table II, of times of payment of wages; table III, of apprentices; and table IV shows the family earnings and expenses for 1883. The information is given for each occupation under the different classes of trades.

Mining statistics (9 pages).—Four tables compiled from data gathered from coal mine employes are presented to show, by counties, the average prices received by miners for mining coal in November and December, 1884; descriptions, in detail, of coal screens used; the amount of coal considered a fair full day's output, and the net earnings therefor; the condition of mine employes in 1884, their earnings and family expenses, etc.

Appendix (39 pages).—The appendix embraces, first, 19 pages of text, composed of remarks and suggestions made by mechanics in relation to apprenticeships,

child labor, and the general condition of wage-earners in the state; second, a copy of the law enacted by the Ohio general assembly, February 10, 1885, relative to the establishment of tribunals of arbitration; and, third, a report covering 16 pages, made by the chiefs and commissioners of the various state bureaus of labor, concerning the economic experiment of the Pullman Palace Car Company, in the establishment of the town of Pullman, Illinois.

NINTH ANNUAL REPORT, 1885.—[359 PAGES.]

Commissioner's report (14 pages).

History of trades unions in America (64 pages).—This is a textual and statistical consideration of trades unions, embracing a history of their rise and growth in the United States and in England, and tables showing their present general condition in both countries. The information exhibited was for the most part obtained from the secretaries of labor organizations in Ohio and in England; and includes recommendations of societies regarding legislation. The history of English trades unions is from the pen of George Howells, M. P. There are 20 tables, most of them being comprehensive. The first table gives a list of Ohio trades unions, showing for each the number of its members, their earnings and time at work, and the accidents reported and benefits allowed by each union. Tables II to VIII, inclusive, pertain to the Ohio unions of the following trades in the order named: Iron moulders, cigarmakers, printers, miners, mixed trades, railroad employes, miscellaneous trades. Table IX relates to the printers' and pressmen's unions of the United States and Canada. Table X is taken from the seventy-fifth annual report of the Friendly Society of Iron Founders of England, Ireland, and Wales. It gives very complete statistics regarding the society for each year from 1855 to 1885. The remaining tables are devoted to statistics of the trades unions of Great Britain, and these are elucidated by textual extracts from the secretaries' reports.

Earnings and expenses of workmen (66 pages).—Budgets were received by the bureau from 353 workmen in Ohio, and the information contained in them is presented by means of thirteen tables covering 51 pages and 15 pages of text. The greater part of the latter is composed of workmen's opinions as to the causes of the depression in business. The first table shows, for each employe reporting, his occupation and earnings and the size and expenses of his family. The second table is a summary of the first, and the third shows the comparative expenses, per capita, of the inmates of Ohio public institutions and the families of those workmen reporting. Table IV gives in detail the earnings and expenses of workmen's families, by trades. The fifth and sixth tables show a comparison of the average earnings of workmen at different trades. Two long tabulations give for each employe statistics relative to the manner and time of working, and the amount paid for life insurance and trades unions, and the last four tables present comparisons of the expenses of workmen in Ohio, Illinois, Massachusetts, Australia, Great Britain, and Prussia. A table giving Dr. Engel's economic law is added.

Manufacturers' returns (64 pages).—The information furnished by Ohio iron manufacturers and coal operators is presented in tabulated form, with textual extracts from the communications expressing opinions regarding the general depression in trade. Four tables show for iron manufacturers, by classes of products, their capital in 1884, tons of castings used in 1884 and in 1885, and also for those years the cost of labor and of material, and value of product. These tables are followed by a summary comparing the totals for the two years named. The sixth table shows the profits and earnings of iron manufactories included in the preceding tables. The next eight tables present in detail comparative statements of wages paid to employes in the iron industry for the years 1884 and 1885, with summaries; and two tables relating to blast furnaces and two relating to rolling mills follow, giving like information concerning each. A report of the secretary of the German Iron and Steel Association, of Berlin, Germany, consisting of seven pages of text and illustra-

tive tables, comes next, and the chapter concludes with two tables relating to Ohio coal mine employes, and extracts from returns of miners and operators on depression of business.

Scrip (16 pages).—A textual consideration of the system of paying wages in scrip, with a copy of the law enacted by the general assembly to provide against it. Accounts are given also of schemes used by various coal mine operators to evade the law.

Arbitration (26 pages).—This is a textual consideration of arbitration, illustrated by a few statistical tables. The English arbitration statute is first discussed, a copy of the statute being given. Then follows an outline of the organization of the board of arbitration for the boot and shoe factories of Cincinnati and of the results attending it. The remainder of the chapter includes a copy of the law providing for arbitration of labor disputes and a detailed account of the labor troubles in the Hocking valley, and their settlement by arbitration.

Cooperative societies (61 pages).—Under this head is presented, first, a statement regarding the measure of success attending cooperation in Ohio, a copy of the act relating to cooperative societies, with a list of cooperative associations incorporated since 1882; and, second, a reprint of a comprehensive paper prepared by Carroll D. Wright, chief of the Massachusetts bureau of labor statistics, entitled a Manual of distributive cooperation. This is a historical and detailed description of distributive cooperation in Great Britain, to which is added an account of cooperative production in most of the European countries and Australia, and a brief account of the Arlington Cooperative Society at Lawrence, Massachusetts. Authorities are noted throughout, and short statistical tables are used to illustrate the growth and strength of the movement. The Rochdale societies, the method of organization and management of the retail and of the wholesale cooperative store, and the cooperative union, are subjects which receive much attention.

Appendix (39 pages).—This consists of copies of two papers read at the national convention of chiefs of the bureaus of labor statistics held in Boston in 1885. The first paper, entitled Statistics of consumption, is by Edward Atkinson. The author endeavors to show, first, the relative share which capital can secure from our present product; second, the relative share which accrues to the laborer; third, the use to which the laborer may put his share. The second paper is by Prof. W. O. Atwater, and is entitled Chemistry and economy of foods. The text, which shows how our food supplies the wants of our bodies, is illustrated by various tables giving analyses of animal and vegetable foods and beverages. A dietary for a family for two weeks, arranged by Dr. Meiner, of Germany, is carefully considered; and tables are given showing daily rations costing from 12 to 45 cents.

TENTH ANNUAL REPORT, 1886.—[384 PAGES.]

Commissioner's report (19 pages).—This consists of a statement of the general results of the investigations made by the bureau during the year; textual remarks, with illustrative tables, regarding the disparity in the average length of life existing between men working at the same trades in Europe and in Ohio; and a comparison of American and European labor, based on the letter of the Secretary of State accompanying the consular reports of 1884.

Strikes (39 pages).—This is a general consideration, mainly textual, of the causes and consequences of conflicts between employers and laborers. The influence of immigration from foreign countries to the United States upon labor is discussed, and a list and account of strikes occurring in Ohio during 1886 is given. The only strike which assumed alarming proportions, the eight-hour strike at Cincinnati, is treated of at length.

Cooperation (19 pages).—A textual account of the cooperative enterprises existing in Ohio, with copies of the quarterly reports of the Sundry Creek Cooperative Company and the Corning Cooperative Society.

Trades unions, foreign and American (102 pages).—A textual and statistical account of trades unions in Great Britain, by James Swift, general secretary of the Steam Engine Makers' Society, giving a separate account of each principal labor organization in the country, a sketch of the trades unions' congress, a list of reforms effected by organized labor, a number of statistical tables showing for each union its benefit features, and a summary showing the number of members in each and expenditures, in detail, each year, from the date of organization to 1885, and the average expenditure per member; a condensed textual history of the German guilds, prepared by consul general Du Bois; a textual history of the Russian guilds, prepared by consul general Stanton, of Saint Petersburg; a report of the proceedings of the international trades unions' congress held at Paris, August 23 to 28, 1886; the constitution of the American Federation of Labor; and a statistical table compiled from returns from circulars sent to trades unions, giving the number of members in those making returns, the number engaged at their trades at the location of the unions, hours of labor, and average earnings of members, and the income and expenditures of the unions.

Employés, earnings, and expenses (53 pages).—The information received from workmen throughout the state is presented in eighteen statistical tables. Eight of these tables give (two of them for 139 workmen owning their homes, two for 137 workmen who live in rented houses, two for railroad employés, and two for mine employés) the size and annual income and expenses of each family, number of rooms occupied, nationality, occupation, and statistics relating to health. The next table is a summary of the preceding, and shows the average income and expenditure per family, the average number of persons per family, and the average number of rooms occupied. Three tables give comparative statements regarding the average earnings and expenses of workmen's families in 1885 and 1886. Two tables give statistics regarding the public institutions of the state; and the last table shows the annual earnings of men engaged in thirty-three separate branches of industry, for each year, from 1877 to 1886, inclusive. This table is compiled from the annual reports of the bureau.

Profits and earnings, manufacturers' returns (75 pages).—Under this head is given a general consideration of the profits and earnings of Ohio manufacturers, presented by means of four statistical tables, with thirteen pages of text showing the conclusions drawn from the tables. Table I gives, for each industry separately, the number of establishments reporting, the number of employés, amount of capital, annual expense, value of product, and gross profit and net profit or loss. The remaining tables are recapitulations of the preceding, giving totals, by industries and by counties.

Labor laws (29 pages).—These are copies of the laws defining the duties and powers of the commissioner of labor; providing for inspection of mines; limiting the age of children employed in mines; requiring fire escapes for factories and public buildings; providing for the health and safety of employés in mines and in factories; relating to the payment of wages in scrip; relating to cooperative trade associations; providing for arbitration of labor disputes; regulating the hours of labor; prohibiting the intimidation of voters; regulating the hours of labor of children; requiring seats for female employés in factories, etc.; securing wages in cases of assignment; prohibiting stay of execution on judgments for wages; the practice of resorting to distant courts to evade the exemption laws; relating to the employment of apprentices; providing for exemption from execution and attachment; relating to mechanics' liens; and providing for the suppression of foreign detectives.

Proceedings of the national convention of chiefs and commissioners of bureaus of statistics of labor, held at Trenton, New Jersey, in 1886 (34 pages).—These include, besides the minutes of the convention, a paper by F. H. Botton on the Great railroad strikes of the Gould southwestern system; a paper by Chas. F. Wingate on the Tenement house problem; a paper entitled Common schools and the labor question, by Prof. Alexander Johnston; and resolutions offered concerning Chinese immigration.

ELEVENTH ANNUAL REPORT, 1887.—[285 PAGES.]

Commissioner's report (14 pages).—This is a textual explanation of the general industrial condition of the state, embracing considerations of proposed legislation extending the power of the commissioner, with a copy of the amended law of New York; labor's competitors; and school legislation.

Cooperation and profit-sharing (11 pages).—Under this head are presented two papers, read at the meeting of the chiefs and commissioners of labor bureaus, held at Madison, Wisconsin, in 1887. The first, by Professor Folwell, is entitled the True nature of profit, and the second, by J. M. Bloomer, is on Cooperation.

Strikes, lockouts, and boycotts (49 pages).—This consists of nine pages of text devoted to brief accounts of the labor troubles in the state during the year; and of tables, covering forty pages, taken from advance sheets of the Third Annual Report of the United States Bureau of Labor. These tables give for each strike which occurred in Ohio during the years from 1881 to 1886, inclusive, by industries, its locality, cause or object, duration, and losses to employers and employes; also the number of employes before and after strike, with average daily wages, the number of employes and of new employes after strike, and the weekly working hours before and after the strike. A summary for all industries for all years follows; and the remaining tables give the same information concerning lockouts.

Manufacturers' returns (83 pages).—Statistical tables, based on data secured by special agents, are here presented, giving in separate tables for each town, by industries, the number of establishments, weeks in operation, the number of employes, how often paid, the amount of capital invested, and the value of the product; also for each county, by occupations, the number of employes, their daily wages and hours of labor. The cost of living in Ohio is shown by tables giving, for each of 48 towns, the prices of the necessities of life in detail.

The wages of workingmen (116 pages).—The wages of workingmen throughout the state are shown by statistical tables compiled from data collected by special agents of the bureau. These tables give separately for each town, by occupations, the number of employes (men and women), their daily wages, and hours of labor.

TWELFTH ANNUAL REPORT, 1888.—[275 PAGES.]

Introduction (3 pages).

Obituary, Henry J. Walls, and biography of John Fehrenbach (10 pages).—Biographies of Henry J. Walls, deceased, first commissioner of the Ohio bureau of statistics of labor, and of John Fehrenbach, author of the bill creating the bureau.

Mortgage indebtedness (174 pages).—This is an account of an investigation made of the mortgages placed on real estate in Ohio during eighteen years, from 1870 to 1888. The statistical information gathered by the bureau is presented in tables showing, for each county separately, by townships and years when mortgages were given, the number and amount of mortgages. A recapitulation gives, by counties, the total number of mortgages given during the period and uncancelled, their total amount, and the assessed valuation of real estate.

Trusts and combinations (21 pages).—This is a textual consideration of trusts and their relation to labor. The path that led up to monopoly, is the heading of the first division of the subject, and after presenting a sketch of the coal combination in the Hocking valley, the chapter concludes with a remedy for the existing evils, offered by Senator Cole; and an account of the inconsistency of the present laws relating to labor.

Industrial statistics (45 pages).—These statistics are arranged in tabulated form and show the average monthly wages of railroad employes, by roads and occupations, the number, hours of service, and wages of street railway employes, by occupation, for each company, with a summary giving the average wages and hours of labor per day; the wages of laborers and mechanics, by location and trades; the wages of farm

hands, miners, and other skilled and unskilled workmen, by counties; the number of mercantile employes with their average wages, by occupations and counties; and the number of manufactories in 197 towns with the number of their employes, the capital invested, and value of the product.

Miscellaneous topics (15 pages).—A textual consideration of the mechanic's lien law, of conditional sales, and of employment agencies; and the paper entitled *Settle the apprenticeship question by inaugurating industrial schools*, read by T. V. Powderly before the sixth annual convention of the chiefs of bureaus of labor.

THIRTEENTH ANNUAL REPORT, 1889.—[232 PAGES.]

Introduction and recommendations (4 pages).

Labor's competitors (41 pages).—Under this heading are presented textual discussions regarding long hours of labor, child labor, and the employment of women. The arguments for and against making eight hours' labor a day's work, and various objections to child labor, and to the employment of women in occupations with men, are stated. Tables are presented showing the number of women employed in the workshops of the state, their occupations, wages, time lost, and the sanitary condition of the workshops in which they are employed. A list of strikes occurring in the state during the year, with causes and number of employes involved, is given. A report of a personal investigation of the trades in which women are employed completes the chapter.

Strikes, lockouts, and opinions (35 pages).—This chapter is made up of extracts from letters received by the bureau from workmen, employers, and business men, expressing the writers' opinions upon the most essential questions in the solution of the labor problem; followed by a general textual consideration of labor organizations.

Manufacturing statistics (51 pages).—These statistics are presented in tables giving, for each county separately, with two summaries for the state, one by industries and the other by counties, the number of establishments in each industry, the amount of capital invested, the number of employes, the total amount paid in wages, and the value of the materials used and of the product.

Trusts and other monopolies (97 pages).—A textual discussion of the effect of trusts upon industrial pursuits, embracing a reprint of the article by Theodore W. Dwight in the *Political Science Quarterly*, concerning the legality of trusts; a consideration of the case of *The People of the State of New York vs. The North River Sugar Refining Company*, with a copy of the opinion of Judge Barrett in full; brief textual accounts of the window glass manufacturers' trusts, of the steel combine, of railroad combinations, and of the barbed wire trust; a partial report of the testimony taken by a congressional committee concerning the cotton bagging trust; and suggestions for the abolition of trusts, with a transcription of Senator Sherman's bill to prevent them.

FOURTEENTH ANNUAL REPORT, 1890.—[256 PAGES.]

Introduction (5 pages).—This gives an outline of the work accomplished by the bureau during the year 1890 and a statement of the sources of information and of the methods employed in gathering the statistics presented in this report.

Free public employment offices (18 pages).—This part of the report gives an account of the organization and operations of free public employment offices in the cities of Cincinnati, Cleveland, Columbus, Dayton, and Toledo. These offices were established in pursuance of an act passed by the general assembly of Ohio, April 28, 1890, the text of the law creating them being given in full at the beginning of the chapter. Five half-page tables, embodying the reports of the superintendents of these offices, show, by weeks, the number of situations wanted, the help wanted, and the number of positions secured through these offices. It also contains an

article taken from the Sunday World of Columbus, exposing the methods practiced by the so-called private employment agencies, and a letter of D. J. Ryan, published in Frank Leslie's Illustrated Weekly in its issue of October 25, 1890, setting forth the objects of free employment offices and the benefits likely to result from their establishment.

Strikes, arbitration, and conciliation (13 pages).—This chapter gives a sketch of the results of the joint conferences held annually between the coal mine operators and miners; a copy of the resolutions passed by the American Federation of Labor at a convention held at Detroit, Michigan, in December 1890, in favor of the eight-hour day; a detailed account of the strikes that occurred in the state during the year 1890; and a copy of the articles of agreement entered into between mine operators and representative miners at Columbus, Ohio, May 26, 1890.

Mines and mining (10 pages).—This includes a brief discussion of the importance of the coal industry and a statistical table, showing for each of 251 mines, operating in the state, its location, the power used, the number of miners and other employes, the number of days worked, the number of kegs of powder used, the number of accidents, the price per ton paid for mining, the product, average value of coal per ton at the mine, and the aggregate value of the total product.

The relations of capital and labor (63 pages).—This topic embraces a number of statistical tables, compiled from data obtained from manufacturers throughout the state, showing, for each establishment reporting the articles manufactured, the amount of capital invested, the cost of material, the value of the product, the total amount paid for wages during the year, the average number of employes during the year, the number of weeks in operation, the hours of labor, and whether the price of labor has advanced or decreased during the year.

Wages of employes and hours of labor (84 pages).—This part of the report consists entirely of statistical tables, arranged by occupations of employes, showing their daily wages, number of days worked, their hours of labor, and their earnings per year.

Labor laws (55 pages).—This is a compilation of the laws passed in the interests of labor now in force in the state. They provide for the appointment of mine inspectors and for the safety of mine employes; require accidents in mines and in factories to be reported; define the term Manufacturer; limit the age of children employed in mines and in factories; relate to liens upon mines for labor; provide for the establishment of a school of mines and mining engineering; for arbitration of labor disputes; prohibit the payment of wages in scrip; provide for the inspection of factories and for the health and safety of factory employes; regulate the hours of labor of children employed in factories; require seats for female employes; secure the prompt payment of wages of certain employes twice in each month; provide for the examination of public buildings, etc., as to safety in case of fire; require the doors of public buildings to swing outward; relate to mechanics' liens; provide for the appointment of building inspectors and of special police officers; establish the eight-hour work day; provide for the protection of trade marks; for the examination and licensing of stationary engineers; for the education of children; for the protection of railroad employes; limit the hours of labor of railroad employes; prohibit the employment of inexperienced railroad conductors; provide for better security against railroad accidents; relate to the shipping of freight; make the first Tuesday after the first Monday in November a legal part holiday and labor day a legal holiday; define the duties of the bureau of labor statistics; and provide for the establishment of free public employment offices.

Report of the legislative committee on railroad employes' relief associations (2 pages).

PENNSYLVANIA.

FIRST ANNUAL REPORT, 1872-'73.—[553 PAGES.]

Population (28 pages).—This topic discusses briefly the advantages of diversified industries and presents statistical tables giving the area, population, and population to the square mile of the world, by continents and by detailed countries; the population of the United States for each decade, from 1790 to 1870, by states and territories; the population of New York and Pennsylvania by years, from 1790 to 1870, showing the percentage of increase of each; the number of persons engaged in the different classes of industries in the states where the diversified industries prevail, and for those in which agriculture is the leading pursuit; the population of Pennsylvania, by counties and by decades, from 1790 to 1870; the number employed in different classes of industry by age periods (groups of 10 to 15, 15 to 60, and 60 and over) and by sex, with percentages; a list of the counties of the state with the dates of their organization, and a diagram showing their relative position as regards population each decade, from 1790 to 1870; the area of the state by counties, the population of each in the years 1860 and 1870, the increase, and the percentage of the increase of twenty-two selected counties for each decade, from 1790 to 1870, and separately of Harrisburg, by decades, from 1800 to 1870, with estimated population up to 1900; the population of the principal cities of the state, for the years 1850, 1860, and 1870, with per cent. of increase, from 1860 to 1870; the population of the state, by counties and nationalities; and a table for the United States and for Pennsylvania, for the years 1850, 1860, and 1870, showing their area, number of persons to the square mile, the total population, number of families, the number of persons to family, and the number of dwellings and of persons to a dwelling.

The destruction of our native forests (3 pages).—Under this heading is introduced a letter from Thomas J. Bigham, commissioner of the bureau of statistics, dated Harrisburg, August 23, 1873, directed to John C. Brown, LL. D., Berwick on the Tweed, stating briefly what effect the destruction of our native forests produces on the climate and health of the state.

Agriculture (15 pages).—Statistical tables giving, by counties and their areas, the regions drained by each river of the state; the number and size of farms of the state, by counties; the agricultural productions, by items, and the number of acres improved and unimproved, by counties, from the census of 1870; and a table showing the production and relative rank of nine leading wheat growing states.

Manufactures (41 pages).—This embraces statistical tables giving, by counties, and in detail by counties and industries, the number of establishments, the number of hands employed, the amount of capital and of wages paid, the cost of materials and value of product, from the census of 1870; a statement of the number of tanneries in the state, their capital, their annual capacity and product, etc.; and a table, showing, by yards, the amount of lumber at Williamsport, January 1, 1873, and similar tables for several other cities.

Historical and financial (74 pages).—Under this heading are given a textual sketch of the early history of the state, its settlement, early condition and finances, its constitutions, colonial and state; a list of the manors laid out by the Penn family in 1779, with the area and location of each; a list of lands other than proprietary manors owned by members of the Penn family; a list of the governors, colonial and state, with dates, and accounts of the different capitals of the state. The financial portion gives, in statistical tables, the revenues of the state, by sources, in 1872, and totals of local taxation in the state. General tables give the area, population, and assessed valuation of the United States, by states and territories, for 1860 and 1870, and the number of miles of railroad for 1862 and 1872; the assessed valuation of the state, for the years 1851, 1863, and 1872, by counties; the wealth, taxation, and public indebtedness of the state, by counties; a return exhibiting the progress of the

national banking system for the ten years, from 1861 to 1873; the liabilities and resources of national banks of the state in December, 1872; the resources and liabilities of banks and savings institutions of the state, by items and institutions. Railroad statistics show the amount of capital and receipts, the number of passengers carried, the number of miles run, and equipment of British railroads in 1872; the number of miles of railroad in the United States each year, from 1830 to 1872, and in the state, by years, from 1811 to 1872; the total cost of railroads in the United States and the amount of their earnings, by classified districts; a table of railroads owned, leased, or operated by the Pennsylvania Railroad system, giving, for each, the number of miles, capital, liabilities, cost, number of passengers carried, amount of freight moved, earnings, expenses, and dividends in 1872; the same facts for those owned, leased, or operated by the Philadelphia and Reading railroad, and for railroads not controlled by either of the above-mentioned companies. Other tables give a list of telegraph and canal companies of the state in 1872, showing their cost, capital, earnings, etc.; also estimates of the gross cost of all railroads, telegraph lines, and canals of the state.

Educational, charitable, and reformatory institutions (29 pages).—Under this heading are embraced short accounts of the colleges and academies, the soldiers' orphan schools, the prisons, penitentiaries, and reformatory institutions of the state, with statistical tables under each topic. The tables give, by colleges and academies, the date of foundation of each, the number of students and teachers, the amount of income and expenses; the income, expenses, and number of students of Girard college, by years, from 1868 to 1873; the number of orphans received by and discharged from orphans' homes and schools, by institutions; a list of asylums and charitable institutions at Pittsburgh, Philadelphia, and other places, with date of organization, capacity, denomination, value of real estate, and amount appropriated by the state; statistics of churches, showing, by denominations, the number of churches, their accommodation and property, for the years 1850, 1860, and 1870; the number and circulation of different kinds of newspapers and periodicals for various years, from 1704 to 1874; a list of libraries in Pennsylvania, by classes and kinds, giving number of volumes owned, for the years 1850, 1860, and 1870; the school attendance and illiteracy of the state, classified according to native and foreign born, for the years 1850, 1860, and 1870; the extent of pauperism and crime, native or foreign born, from the censuses of 1850, 1860, and 1870; a table of penal institutions of the state and list of county almshouses, giving, by institutions, the dates when opened or created, their cost, number of inmates, etc.

Mineral statistics of Pennsylvania (78 pages).—A textual and statistical consideration of the mineral resources of the state. The tables give, by counties, the production of different minerals during the year; the coal production of the globe, by countries, and the area of coal fields; the coal production, home consumption, and exportation of Great Britain, by years, from 1854 to 1872, with an estimate of the quantity mined previous to 1854; the various purposes for which the product of 1869, in England, was used; the production of coal in the state in 1871, and uses to which it was put; the amount of anthracite and bituminous coal sent to market, by districts of the state, for each year, from 1820 to 1872; by counties and kinds of ore mined, the number of mines, the power used in mining, the number of employes (men and boys), the amount of capital employed, the total wages paid, and product; the production of pig iron in the United States, by kinds of pig, for the years 1851, 1863, and 1872, and in Pennsylvania, for the years 1870, 1871, and 1872; the yield of rolling mills in Pennsylvania in 1866, by products; the receipts of pig iron, iron ore, and blooms at Pittsburgh in 1872; the amount of sales of iron at Pittsburgh, by kinds and months, in 1873; the number of tons of rails made and imported, and the number of miles of railroad built in the United States, each year, from 1849 to 1872; the number of establishments engaged in the production and manufacture of iron in the United States and in Pennsylvania, by kinds, giving their total capital, wages paid, and value of prod-

ucts, etc., from the census of 1870; a list of blast furnaces of the state, giving name, location, amount of iron made and fuel used, etc., in 1872; the number of tons of rails made in the United States in 1871 and 1872, by states; the average daily production of petroleum in the state for each month, from 1867 to 1873; exports of oil from the United States and from Philadelphia each year, from 1860 to 1873; receipts of crude oil at Pittsburgh, by years, from 1859 to 1873, and exports of refined oil each year, from 1865 to 1873; shipments each month in 1872, of oil from the Pennsylvania oil region; the average daily production of petroleum in the state, by months, each year, from 1867 to 1872; the number of oil wells drilled during the same period, and the stock of crude petroleum in the producing regions, by months, each year, from 1868 to 1872, etc.; the number of men employed, with wages and hours of labor, and the quantity and value of slate produced in the slate quarries of York and Lehigh counties in 1871.

Ports of entry of Pennsylvania (27 pages).—A textual and statistical consideration of the trade and industries of Philadelphia, Pittsburgh, and Erie. Tables give the quantity and value of foreign imports and exports of Philadelphia, by articles, in 1873, with a recapitulation, by countries importing and exporting, and whether carried in American or foreign vessels; exports of petroleum and breadstuffs in 1873, by countries; exports of industrial products, by articles, for ten months, in 1871 and 1872, and by countries, in 1872; exports of rails from Great Britain, for the years 1871, 1872, and 1873, by countries sent to; the estimated value of the productions of the Pittsburgh rolling mills in 1872; a list of the steel works of Pittsburgh, with annual capacity of each; the number of cotton mills of Pittsburgh with their chief products; a list of wholesale liquor dealers of Pittsburgh and Allegheny City with the amount of sales of each; receipts of iron ore and pig iron in 1873, of oil, coal, and coke for 1872 and 1873, and of grain and produce for each year, from 1869 to 1873, at Pittsburgh; the coal and coke trade of the Monongahela valley, by months, in 1873; the amount of coal and coke carried by different railroads, for the years 1870, 1871, 1872, and 1873; shipments of coal through the Monongahela Navigation Company's locks, by years, from 1844 to 1873, and the amount of imports and exports, by articles, of the city of Erie, for 1872 and 1873.

Miscellaneous (18 pages).—A list of the names of the governor and heads of departments, members of the state legislature and judiciary, and congressional districts; the vote, by counties, on the constitutions of 1838 and of 1873; on the prohibition law of 1854, and on the local option law of 1873; the electors' votes for President, by terms, from 1789 to 1873; a list of United States Senators from Pennsylvania, from 1789 to 1873; a list of cooperative organizations of the state, with their capital, location, etc.; a statement of the condition of the state debt in 1873, and a table giving the weights and measures of the principal articles of produce, as regulated by statute or by custom.

Report on labor: Introduction (11 pages).—A general consideration of the work of the bureau and condition of labor in the state.

The labor troubles in the anthracite region (50 pages).—A textual historical account of labor troubles in Schuylkill county and an account of the arbitration of difficulties, with short tables giving the wages paid miners under the settlement of 1869; the number of miners in Schuylkill county and their rates of pay, by occupations, in 1870; the average earnings of each class of miners in 1870, and the number in each class; copies of agreements fixing miners' wages made at Pottsville, July 29, 1870, May 11, 1871, and January 6, 1872; and the price of coal and average earnings of miners for 1871 and 1872.

Labor in mines (8 pages).—A textual account of mine labor in several counties of the state, separately, with statistical tables giving, for each county, the number of collieries, the number of miners, by occupations, and the average yearly earnings and daily pay of each class, in anthracite and bituminous coal mines and in other mines separately.

Labor in manufacturing industries (36 pages).—Consists of statistical tables with textual comments, giving for each industry, separately, the average wages paid, by occupations, the average earnings of each class of laborers, and general tables showing, by industries making returns, the number of employes, the number native and foreign born, and the average wages paid, by occupations. Extracts from the Massachusetts labor report for 1871 are added, giving wages of employes in various manufacturing industries. Wages of farm laborers and railroad employes are also given.

The census of Philadelphia, by Lorin Blodgett (29 pages).—A textual article on the condition of labor and industry, etc., in Philadelphia, as exhibited by the United States census of 1870, and a statistical table giving the average daily and weekly wages paid men and women in Philadelphia, by occupations.

Returns of labor blanks (35 pages).—A textual consideration of the general condition of laborers and extracts from returns made by 15 miners concerning their earnings and cost of living, and a description of the houses occupied by them, with their surroundings; followed by evidence taken at Pittsburgh relative to abuses in bituminous coal mining.

Labor troubles in the coal mines of Tioga county (29 pages).—A textual account of the troubles which occurred in the coal mines of Tioga county in 1873.

Appendix (29 pages).—This includes extracts from evidence taken in the coal investigation, statements of operators and workmen, and correspondence bearing on the subject; a paper by Benjamin Bannon on Capital and labor, including a review of the financial condition of the country, with suggestions on the issue and distribution of currency; a statement from coal mines in Dauphin county, and the constitution of the National Miners' Association.

SECOND ANNUAL REPORT, 1873-'74.—[430 PAGES.]

Assessment returns for 1874; (8 pages).—Under this heading are included several statistical tables, showing, by counties, the assessed value of real and personal property of the state for 1873 and 1874; the indebtedness and amount of county taxes assessed in 1874; the population in 1870; and the assessed and true values of real and personal property, in the aggregate and per capita, in 1874; the relative value of real and personal property of Pennsylvania, New York, and Ohio, in 1874; and a textual account of the principal facts disclosed by the foregoing tables.

Historical (27 pages).—This topic includes a textual sketch of the early history of the state, its settlement, early condition, and finances; colonial and state constitutions; lists of the manors laid out by the Penn family in 1779, with the area and location of each, of other than proprietary manors, and of the governors, colonial and state, with dates; an account of the different capitals; an account of the grave of William Penn; and a sketch of the last geological survey of the state.

Population of the world (13 pages).—Statistical tables giving the area, total population, and population to the square mile of the world, by countries and by continents, in 1874; the population of the states and territories of the Union, by decades, from 1790 to 1870; the population of Pennsylvania, by counties and decades, from 1790 to 1870; the population of the principal cities and towns of the state, for the years 1850, 1860, and 1870; the population of New York and Pennsylvania for each decade, from 1790 to 1870, showing the percentage of increase and estimates of increase, from 1870 to 1900; and a list of the counties of the state with their dates of organization.

Agriculture and manufactures (9 pages).—Under this heading are included an account of American manufactures as seen by an English diplomat, and a number of statistical tables, giving, by age periods in groups of 10 to 15, 15 to 60, and 60 and over, and by sex, the number of persons in the state employed in different classes of occupations; the number of acres of land, improved and unimproved, and present value of farms in the state, by counties; the value of farm products, by items and counties; the agricultural products of the state in 1870, with the relative rank of each product compared with other states; and the number of manufacturing industries of the state, and the value of their products in 1870, and estimated value in 1875, by counties.

Financial (30 pages).—Statistical tables giving receipts and expenditures of the national government for twelve years, from 1861-'62 to 1872-'73, by items; the receipts and expenditures of the state, by items, for 1872 and 1873; the amount of business done by insurance companies of the state, their receipts, losses, etc.; the cost of public works and of several railroads and canals; the indebtedness of the United States, May 1, 1874; and of the several states, including local and municipal debts; the railroad indebtedness, by geographical divisions; a textual review of bankruptcies of the year; the condition of national banks of Pennsylvania, Philadelphia, and Pittsburgh; a list of national banks of the state, their capital and circulation, with a condensed statement of their surplus, dividends, and net earnings; a list of state banks, their resources and liabilities; and the thirty-eighth semi-annual report of the dollar savings bank of Pittsburgh.

Railroads (10 pages).—This consists of statistical tables giving a list of the roads of the state owned, leased, or operated by the Pennsylvania and by the Philadelphia and Reading railroad companies, and those not controlled by either of them, giving the cost of each road, its length, the number of passengers carried, and amount of freight moved, earnings, expenses, and dividends; also the cost, length, earnings, etc., of telegraph lines, canals, and street railways of the state for the year 1873.

Educational (28 pages).—This topic embraces statistical tables giving the number of churches in the state, their accommodation, and the value of property held by each denomination; the newspaper and periodical circulation, and the number of publications, by kinds, for the years 1850, 1860, and 1870 and the total number and circulation in the United States for various years, from 1704 to 1871; the number of libraries of the state and number of volumes owned, by classes of libraries, for the years 1850, 1860, and 1870; and statistics of school attendance and illiteracy of the native and foreign born population of the state, for the years 1850, 1860, and 1870; tables giving a list of colleges and academies of the state, with the number of pupils, teachers, etc., of each; and two textual papers entitled the Money value of education and Industrial education indispensable to our state.

Reformatory institutions (14 pages).—A textual and statistical consideration of the reformatory institutions of the state. Tables give a list of county prisons, the date when each was erected, the annual cost per prisoner, the articles manufactured, etc.; the number, by sex and color, admitted into reform schools and the house of refuge since their opening, the number discharged, by causes, etc.; and information of miscellaneous character relating to the house of refuge at Philadelphia and the reform school at Pittsburgh.

Criminal courts (4 pages).—Tables giving, by counties, an abstract of the business of criminal courts of the state.

Charitable institutions (6 pages).—Statistical tables, giving, by counties, the amount raised by taxation, and the amount expended for support of township poor, by items, in 1872; a list of almshouses, showing their cost, the number of acres owned, expenses, etc.; a list of hospitals for the insane, showing the number of admissions, discharges, etc., by sex, in 1872; the civil condition and form of insanity of the whole number admitted, by institutions.

The tax laws and the constitution of 1873 (8 pages).—A textual consideration of the constitutionality of the tax laws, with a table giving the resources of the state, for 1872 and 1873, by detailed items.

Lumber (23 pages).—Under this heading are given a brief account of the proceedings of the national convention of lumbermen, held at Williamsport, Pennsylvania, June 23, 1874; extracts from *The Timber Trades Journal*, of London, and from the *Montreal Gazette* on lumber and timber supply; and statistical tables giving an estimate of the stock of lumber at Williamsport, January 1, 1873 and 1874, by names of yards; the amount of stock on hand at various places each year, from 1870 to 1873; the shipments of lumber from Williamsport, for 1872 and 1873; the amount of lumber in the state, by location; and exports of lumber from San Francisco in 1873, by countries sent to.

Drainage of Pennsylvania (2 pages).—A list of counties with their areas drained by each river or stream of the state.

Tanneries and leather (12 pages).—A textual and statistical consideration of the tanning and leather industries of the state, with a review of the boot and shoe business of Philadelphia in 1873. Tables give the value of leather tanned and lumber sawed in 1870, by counties; the number and value of goat skins imported into Philadelphia in 1873; and of hides and leather exported from Philadelphia for part of the year 1874; and the total imports of hides at New York, by countries sending, by years, from 1871 to 1873, and part of 1874.

Mineral statistics of Pennsylvania (108 pages).—This embraces a textual and statistical consideration of the mineral resources and production of the state. The text includes the acts of the legislature establishing a bureau of industrial statistics and defining its duties; and a list of blast furnaces, rolling mills, and steel works of the state. Tables give the number of mining establishments and value of their products for the past year, by kinds of mines; the progressive stages of coal production in the six leading industrial countries of the world, by decades, from 1830 to 1870; the proportion of coal used in Great Britain by various industries; the amount of coal required per ton of various products; analyses of coal and coke; the price of coal each year, from 1834 to 1865, at Philadelphia; the number of collieries of the state, by districts; the extent of the anthracite coal fields; the extent of the Lehigh coal basins; the production of semi-bituminous coal in the state in 1871; the production, number of mines, etc., of the Broad Top semi-bituminous coal region, by names of collieries; the distance of coal fields from tide-water markets; the production of coal in Pennsylvania in 1873, by districts; the shipment of coal, by roads, for 1872 and 1873; the production of coal in the United States each year, from 1864 to 1873, and consumption for 1873; the amount of coal carried by different roads and canals at different periods, ranging from 1840 to 1873; the coal product of the United States, according to the census of 1870, by states; the coal production of the world, by years, from 1862 to 1873, by countries; the production of pig iron in the United States, for 1872 and 1873, by states; and in the United States and in Great Britain, each year, from 1854 to 1873. Tables also show the average cost per ton of American pig and bar iron, by years, from 1850 to 1874; the prices in Philadelphia of pig iron, by years, from 1842 to 1873, and of American iron railroad bars, each year, from 1847 to 1873; the price of gray coke iron in Pittsburgh, by months, for 1873 and 1874; the production and price of various grades of iron products, for 1873 and 1874, by months; the number of mining establishments, the number of employes, the amount paid in wages, etc., in the state in 1870; and the amount of stock of different oil pipe companies.

Business of Pittsburgh (15 pages).—Statistical tables giving the shipments of coal through the Monongahela Navigation Company's locks, by years, from 1844 to 1874; coke receipts, for 1873 and 1874; the amount of coal shipped by river in 1874; coal receipts in 1874; the amount of crude oil received each year, from 1859 to 1874; exports of refined oil east, by years, from 1865 to 1874; the price of oil, by weeks, in 1874; receipts of pig iron and blooms, by roads, in 1874; grain receipts in 1874; and the amount of capital invested in and the value of various manufactures of the city.

Business of Erie (3 pages).—A textual consideration, and a table giving the value of imports and exports, by articles and years, from 1868 to 1874.

Commerce of Philadelphia (33 pages).—Statistical tables giving the total imports and exports of the United States, for the years 1872, 1873, and 1874; the exports of Philadelphia, by detailed articles and countries, in 1874; exports of breadstuffs, provisions, and petroleum in 1874, by countries; the number of vessels entered and cleared by nationality, their tonnage and value of cargo in 1874; the amount of duties received in 1874 at Philadelphia; the number of immigrants landed at Philadelphia, by nationality and sex; the imports and exports of the United States and of the five principal ports, for the years 1872, 1873, and 1874, showing the percentage of increase and decrease; and an account of the grain elevators of the International Navigation Company at Girard Point, Philadelphia.

Petroleum (7 pages).—This includes a review of the production and refining of crude petroleum for the year 1874, and several statistical tables giving the average daily production of oil in Pennsylvania, by months, for each year, from 1867 to 1874; the number of wells drilling; prices of oil, by months, for each year, from 1864 to 1874; the number of vessels, by nationality, loaded with oil at Philadelphia, by years, from 1870 to 1874; and the percentage refining capacity of Pennsylvania, New York, and Ohio compared.

The international exposition (6 pages).—Textual remarks concerning the preparation for the centennial exposition.

The Delaware breakwater (2 pages).—A textual description, with map.

Vital statistics (6 pages).—Statistical tables giving the number of births, deaths, and marriages in Philadelphia, by months, for the year 1873, with a general summary, by years, from 1860 to 1873; the number of deaths and the death rate in 1873, in foreign cities; and the area of Philadelphia, by wards.

Appendix (42 pages).—Under this head are published several articles which were too late for classification in the main part of the report. They relate mainly to state taxation and expenditure; railroads; condition of national banks; the financial situation of the United States; glass works; coal production; coking of Broad Top coal; the Cumberland coal trade; iron and coal trades of Pittsburgh in 1874; storage and transportation of petroleum; Pittsburgh homes and houses; failures in 1874; and conclude with a table of Dr. Engel, giving the aggregate steam power of the world.

THIRD ANNUAL REPORT, 1874-'75.—[570 PAGES.]

United States and state governments (34 pages).—Under this title are given the names of the President of the United States, the heads of departments and of department bureaus, the justices of the Supreme Court, a list of senators and representatives of the United States, the apportionment of representatives in Congress, according to the census of 1870, and the area and population of the United States by decades, historical and statistical tables of the United States, and a list of American wars; the names of the governor, heads of departments of the state and members of the state legislature; the names and dates of organization of counties and the names of county towns, with their distances from Washington and Harrisburg.

Agriculture (88 pages).—This is a brief textual sketch of the early history and development of agriculture in Pennsylvania, and a textual and statistical consideration of its present status. It consists chiefly of accounts of the proceedings of agricultural conventions and associations, of county agricultural societies, and of the Patrons of Husbandry in the state, giving occasionally brief tables showing the production of the counties reporting. Five short tables, in conclusion, give wages of farm laborers, for the years 1860, 1870, and 1874; the wages of mechanical laborers, by occupations, for the same years; wages in cotton mills in 1869 and 1874; in iron rolling mills in 1874; and in iron foundries and machine shops in 1869 and 1874.

Financial (29 pages).—Statistical tables giving the resources and liabilities of national banks of Pennsylvania, Philadelphia, and Pittsburgh; their dividends and earnings, semi-annually, from 1869 to 1875; a list of national banks of the state, with their location, amount of capital and circulation; the names, and values in United States money, of foreign coins; tables showing the comparative progress in the commonwealth in sixty years; the present assessed valuation of real and personal property; the amount of indebtedness, etc., of the state, by counties; the receipts and expenditures of the state in 1875, by items, and the condition of the public debt.

Insurance (7 pages).—Statistical tables giving the amount of business done by insurance companies, their income, losses, etc., and present condition.

Industrial interests (139 pages).—This embraces a textual and statistical consideration, under various heads, of the condition of labor and laborers in various portions of the state and of the condition of industries. Tables give, by counties and estab-

ishments, the number and average wages of miners, by occupations; the amount and value of mine products; a list of companies from whom reports were received; the amount of coal carried by the Philadelphia and Reading Railroad Company in 1875, by weeks, and also by stations at which coal was delivered. A textual article by John Fulton gives a description of the methods of coking coal for furnace use, with several illustrations, and a table showing the cost of production, by items, and the physical properties of coke. Tables also give analyses of coals and of iron ores, and the steam raising power of different kinds of coal. An article on petroleum gives a description of the oil fields in Pennsylvania, with information relating to the process of refining oil, and tables showing the amount of exports of oil from the United States, by years, from 1870 to 1874; the amount of oil shipments from the oil region, by months, in 1875; the price of oil by months, each year, from 1870 to 1875; the production, average price, and amount of oil exported from the Pennsylvania oil wells, by years, from 1859 to 1874; the number of wells drilled, each year, from 1869 to 1874; and returns from parties engaged in the storage and transportation of petroleum for the year 1875.

Manufacturing industries (81 pages).—A textual statement of reports of a number of iron furnaces and rolling mills of the state, giving the number of employes, their wages, etc.; a copy of the act introduced in the state legislature in regard to restrictions upon trades; a consideration of child labor; a textual account of the paper industry of the state, and of cotton and woollen mills, with reports from several companies, giving wages of employes, etc.; a textual account of the mineral resources of Lancaster county; and a textual and statistical review of the iron trade of the state in 1875. Tables give the stock of anthracite pig iron on hand, by districts, for 1874 and 1875; the price of pig iron, by months, each year, from 1869 to 1875; the production of pig iron, by years, from 1871 to 1875; the number of furnaces out of blast for 1874 and 1875; the price of old rails and scrap iron, bar iron and new rails, each year, from 1872 to 1875, by months; and a textual and statistical consideration of the iron and steel industry of the country, with tables showing the production of pig iron, rails, and nails in the country, for various years, from 1810 to 1874; of Bessemer steel rails, each year, from 1867 to 1874; the importation of iron products, by articles, for various years, from 1821 to 1810, and each year, from 1850 to 1874; the value of domestic iron and steel and manufactures of same, exported each year, from 1821 to 1874, and of domestic iron and manufactures of iron, by years, from 1791 to 1820.

Railroad labor report (36 pages).—Statistical tables giving, by roads, the number of employes and their wages, by occupations; the quantity and cost, by items, of materials used by each engine, cost of repairs, and the number of miles run by each engine during January, 1875, on the Delaware, Lackawanna and Western railroad, with a recapitulation for all engines, by months, for the whole year; the rate of wages paid, by occupations, on railroads in a number of states; the wages and hours of labor, by occupations, of employes of the Grand Trunk Railway Company in 1874; the length of railroads in the state, by roads, and the names, length, and cost of street railways in the state.

Canals and telegraphs (3 pages).—Tables giving a list of canals, their length, cost, etc., and a list of telegraph companies, giving their length, cost, receipts, etc., in 1874.

School statistics (13 pages).—This embraces mainly statistical tables showing the educational growth of the state, by years, from 1865 to 1875; the estimated value of school property, by counties; the number of schools, teachers, and scholars; the amount of taxes for school purposes, etc., by counties, in 1875, and a statement of the financial condition of the soldiers' orphan schools, and concludes with an article on the necessity of night schools in mining and manufacturing towns.

Pennsylvania state college (41 pages).—Under this head are given a textual history and description of the college, its courses of study, methods of instruction, and resources and expenditures.

Miscellaneous coal reports (21 pages).—Various statistical tables giving the production of coal on the globe, each year, from 1870 to 1873, by countries; the amount of coal carried by various roads of the state and for various years, from 1850 to 1874, and the production of various coal companies for various years; the wages of employes of the Philadelphia and Reading Coal and Iron Company, by occupations and collieries, and the total production, the number of days in operation, and the number of employes of the same, and the number and wages of employes, by occupations, of the Pennsylvania Coal Company.

Foreign trade of Pennsylvania (28 pages).—Statistical tables showing the amount and value of imports and exports of Philadelphia, by countries and articles, in 1875, with summaries; the amount of duties received in 1874 and 1875, by months; the number of foreign letters received and sent in 1875; the number of immigrants in 1875; and the number, tonnage, and nationality of vessels entering and clearing from Philadelphia in 1875. Other tables give the amount and value of imports and exports of Erie, by articles.

Flax culture (3 pages).—A letter by Wilson Watson to the governor of the state containing data concerning the culture of flax; and a table showing for a number of states, for 1873, the number of acres in wheat, the yield, its value, the number of bushels per acre, and price per bushel.

Prices (4 pages).—Statistical tables showing the average retail prices of leading commodities in New York, New Jersey, and Pennsylvania, for the years 1867, 1869, and 1874, and in Pennsylvania in 1875; and a table showing the average weekly expenditures, by items, of families of workmen in a number of manufacturing towns of the state, with the number of persons in family indicated.

Wages (7 pages).—Statistical tables giving the average rates of wages and number of employes, by occupations, in the iron shipbuilding yards of W. Cramp and Sons, in 1874; in the shipbuilding yard and iron works of Chester, Pennsylvania, in 1874; in the iron industries of Pittsburgh, and in the glass works of Thomas Wightman & Co., of Pittsburgh. A table shows, by occupations, the number of persons in special occupations in Pennsylvania, by age periods and sex.

Lumber (16 pages).—This topic includes a review of the Williamsport trade for the year 1875, an article on the destruction of our forests, and several tables giving the amount of lumber shipped from various places and by various roads; an estimate of the amount of lumber at Williamsport, January 1, 1875 and 1876, by yards; and the stock on hand at several points on January 1, each year, from 1870 to 1875.

Tanneries (6 pages).—This gives textual statements of the condition of the trade by George B. Kerper, and reports from several companies, including a table showing for three tanneries, the number of their employes and their average wages, by occupations.

FOURTH ANNUAL REPORT, 1875-'76.—[1074 PAGES.]

State government (30 pages).—A list of the names of the governor, heads of departments of the state, and members of the state legislature; the names and dates of organization of counties, the names of county towns and their distances from Washington and Harrisburg; a historical and statistical table of the United States showing when, where, and by whom each state was settled, when the Constitution was adopted, when admitted into the Union, and the area and population in 1870; and a list of American wars, with their duration and cost.

Some remarks on crime and its causes (33 pages).—This is a textual and statistical paper on crime and its causes, prepared by Richard Vaux. The tables, covering about 13 pages interspersed throughout the text, give a record of 37 convicts in the eastern penitentiary in 1876, showing their ages, crimes, condition of parents, etc.; the number of persons charged with crime in the state in 1875, number of bills tried, number of acquittals, number of convictions and number of nolle prosequies, arranged by

crimes and also by counties; the number of convictions, by crimes, in 1875, distinguishing between crimes against property and crimes against persons, for each county in the state; the number and per cent. of convictions for crimes against property and against persons, according to the educational condition of the criminal, for each year, from 1829 to 1873; the number of unapprenticed prisoners received at the eastern penitentiary during the period 1865 to 1875, and for 1876 alone, distinguishing between those who had a trade and those who had no trade on conviction, by counties; and the number of persons received during the period 1870 to 1876, and for 1876 alone, by counties, showing the number who had attended public or private schools or none at all.

Financial (17 pages).—This topic embraces a number of tables, giving, by names, a list of national banks in the state, with their location and the amount of capital and circulation, on October 2, 1876; abstract of reports made to the Comptroller of the Currency, showing the condition of the national banks in the state of Pennsylvania, and in Pittsburgh and Philadelphia separately, at the close of business on June 30, and October 2, 1876; a statement of the Comptroller of the Currency showing the capital, surplus, dividends, and earnings of the national banks in the state, exclusive of those in Philadelphia and Pittsburgh, from March 1, 1869, to September 1, 1876; the revenues and expenditures of the state by items, with a recapitulation, by months, from December 1, 1875, to November 30, 1876; and a statement of the state public debt on December 1, 1876.

Insurance (7 pages).—This consists of summarized tables taken from the report of J. M. Forster, insurance commissioner of Pennsylvania. They show the amount of business done by insurance companies operating in Pennsylvania during the year 1875, their income, losses, etc., and present condition.

Industries (138 pages).—A general textual and statistical consideration of industries, their number, extent, etc., in the central, western, and northwestern portions of the state. A large number of short miscellaneous tables interspersed throughout the text give varied information, as list of firms and addresses; the amount of traffic of railroads; the tonnage of vessels built in the vicinity of Pittsburgh, from 1858 to 1875; a list of coke works and of collieries, their value, the amount paid out in wages, etc., in different parts of the state, with recapitulations, by districts; a list of glass firms, when they were established and the number of furnaces and factories; and the production and consumption of iron per capita in various countries. The treatment of Pittsburgh and the Allegheny valley is elaborate and includes an account of the geographical position and advantages, the growth of population and industries, giving the names of the principal establishments and their productions, etc. The receipts of oil each year, from 1869 to 1875, at Pittsburgh and the shipments of oil from 1865 to 1875 are given. The paper includes an account of the oil region, giving the production of oil, by works, from 1869 to 1876, the names of companies and their capacity, and a table of railroads in each county, with the number of miles projected and operated, and a recapitulation, by counties, with a grand total for the state, January 1, 1877.

Petroleum (9 pages).—A textual review of facts concerning the origin and production of oil in Pennsylvania, prepared by Henry E. Wrigley, civil and mining engineer, with a table giving the production of oil in 1876, by names of companies.

Coal (258 pages).—This subject embraces individual reports received from a large number of companies, giving, by counties, for anthracite and bituminous coal mines separately, the number of employes (men and boys) and their average wages, by occupations in each mine, the length of time the mine was in operation during the year, the number of tons and value of annual product. These reports are combined in general tables giving the same facts, by companies and counties. The subject of ventilation of mines is discussed, with tables illustrating tests by the barometer and safety lamp, and a table showing the air pressure in pounds per square foot of surface area in shafts at different depths and different degrees of temperature. Other tables

give a list of fatal casualties, by causes and by counties, each year, from 1869 to 1875; the price of anthracite coal at Philadelphia, by months, for each year, from 1826 to 1875; the amount of anthracite coal shipped, by districts, for each year, from 1820 to 1875; and from Cumberland for each year, from 1842 to 1875; and the weight of coal per acre, for beds varying from 1 to 40 feet in thickness.

Zinc ore mining (1 page).—An account of the Lehigh Zinc Company's mines, giving the quantity and value of annual product, the number of men and boys employed, by occupations, with daily wages paid to each.

Iron ore mining (11 pages).—Separate reports from a number of iron mines give the number of employes (men and boys) and their average wages, by occupations, the number of tons and value of annual product; and a table shows analyses of ores of different mines.

Manufactures (231 pages).—Under this head are presented individual reports from a large number of firms engaged in manufacturing, giving, by industries, for each establishment separately, the number of employes (men and boys) and their average wages, by occupations, and in some cases the hours of labor; the length of time the establishment was in operation during the year, the value of the annual product, etc. The industries treated of are: Iron foundries and machine shops; powder; straw and manila paper; roofing slate; whitewash brush blocks; fire brick; shovels, scoops, and spades; axes, scythes, edge tools; railroad and mining tools; steel; iron sponge and open hearth stoves; boilers, stills, tanks, etc.; iron bridges; freight cars; light locomotives; railroad freight and coal cars; brass foundries and iron pipe fitting; copper and brass rolling mills; cast steel; rolling mills; blast furnaces; forges; glass works; cotton mills and woollen mills. Recapitulations give the same information for iron foundries and machine shops, for rolling mills and for blast furnaces, by counties and by firms. There is also included a review of the eastern iron trade for 1876, with a discussion of the probabilities for 1877, and a table showing the production of pig iron in the United States in 1875 and 1876, by states and districts, taken from the bulletin of the American Iron and Steel Association.

Tanneries (49 pages).—This comprises textual reports, by counties, of the operation of 172 tanning establishments, giving the names of firms and their post office addresses; the amount and value of the annual product; the wages of employes, by occupations; the quantity and value of raw material used; and remarks as to location, buildings, length of time in operation during the year, etc.; and a table, arranged by counties and establishments, combining the principal facts of the foregoing information, in form of a recapitulation.

Lumber (28 pages).—This presents textual and statistical reports from individual firms, showing the amount and value of the product, and the number of employes (men and boys) and their average daily wages, in most cases by occupations; the length of time the mill was in operation, etc. Tables give the amount of stock on hand January 1, each year, from 1870 to 1876, by yards, and the amount of lumber in the Williamsport market January 1, 1877, by names of yards.

Social condition (17 pages).—Under this title are presented a statement of the condition of the laboring classes in the state, the cause of such condition, and some suggestions as to the remedy. Reports from a number of workmen in various parts of the state are given, showing their occupations, nationalities, wages, hours of labor, yearly earnings, the number in family, and their cost of living in detail.

Railroad labor report (37 pages).—Statistical tables giving for each of twenty-nine roads, by occupations, the number of employes and their average wages, hours of labor and number of days worked during the year; the quantity of freight carried over 68 roads, by articles; and a description of the block system on the Pennsylvania railroad.

Commerce of Philadelphia (42 pages).—This is a report by Peter Wright & Sons, and consists of tables giving the quantity and value of imports of the city during the year 1876, by countries from which brought and by articles, with a summary

by articles; a recapitulation, by countries, of the value of imports carried in American and in foreign vessels; imports in bond via New York and San Francisco; the value of merchandise imported via Philadelphia in bond to other cities; the amount of duty received at the customhouse in Philadelphia, by months, for 1875 and 1876; the number of immigrants landed, by countries and sex; the quantity and value of exports, by countries and by articles, with recapitulation by articles and by countries, and whether in American or foreign vessels; the value of breadstuffs and provisions and of petroleum exported, by countries; the value of imports and exports each year, from 1821 to 1876; the number, tonnage, and value of cargo of vessels clearing and entering, by nationality of the vessels; also the number entering and clearing for coastwise trade, by months, in 1876; and a textual consideration of some of the leading industries of the city, viz: Grain, iron, woollen manufactures, tobacco, petroleum, machinery and manufactures of iron, and leather, with illustrative tables giving the amount of grain receipts, by kinds and months, in 1876, and by kinds and years, for 1873, 1874, 1875, and 1876; the estimated production of tobacco in the world for the period 1870 to 1873, by countries; and the quantity of petroleum received for each year, from 1866 to 1876.

Commerce of Erie (7 pages).—A series of tables gives the amount of imports and exports for each year, from 1868 to 1876, by articles; the number and tonnage of vessels on the lake, for 1872 and 1876; the amount of receipts and exports of grain, lumber, and coal, as showing the trade of Erie; the amount of capital invested in, the number of employes, and the value of the products of a number of manufacturing industries, for 1875 and 1876; a statement of the banking capital, distinguishing between national banks and savings and private banks; and the dates of the opening of the harbors of Buffalo, New York, and Erie in the spring of each year, from 1826 to 1876.

Noxious insects (18 pages).—A textual paper on the Colorado potato beetle, with illustrations of insects and suggestions as to means of destroying it, by Prof. S. S. Rathvon.

School statistics (14 pages).—Consists of tables from the report of the superintendent of public instruction, showing the number of school districts, schools, teachers, pupils, etc.; the expenses of instruction, the average salary of teachers, etc.; the educational growth, by years, from 1866 to 1876; the estimated value of school property, by counties; the number of schools and the number of teachers, male and female, and their average salary; the number of scholars, by sex, their average attendance and the cost of teaching per pupil; the school tax rate and amount of tax levied for school and building purposes, by counties; the amount of receipts and expenses, by items and by counties; the same information for cities and boroughs having 5,000 inhabitants and upward; and the number of teachers and their average salary, the number of scholars, and the amount of appropriations for schools, school expenses, etc., each year, from 1854 to 1876. Other tables give a list of appropriations for soldiers' orphan schools and their annual expenditures for each year, from 1865 to 1876, and a list of orphan schools and homes, showing the number admitted, the number of inmates of each, by sex, the number discharged, etc.

The Centennial (122 pages).—Under this title is embraced a textual report of the exposition, containing a list of the members of the United States Centennial Commission, of the board of finance, and of foreign commissioners, arranged by countries; a description of the buildings, an account of the opening ceremonies, May 10, 1876, and a list of exhibitors, judges, and those receiving awards of prizes.

FIFTH ANNUAL REPORT, 1876-77.—[826 PAGES.]

United States and state governments (21 pages).—This gives a list of the names of the governor, heads of departments of the state, and members of the state legislature; the names of the counties, with the dates of their organization; the names of county towns, and their distances from Washington and Harrisburg. Historical and statistical tables show for each state when, where, and by whom settled; when it adopted

the Constitution; when admitted into the Union; its area and population in 1870; its seat of government; the time of holding election, and the date of the meeting of its legislature, and are followed by a list of American wars, with their duration and cost.

Petroleum (6 pages).—This consists entirely of statistical tables giving official returns from parties engaged in the storage and transportation of petroleum, for the year 1877, by companies; the daily average production, the daily average shipments, stocks first of each month, and daily average exports, by months, for four years combined; a statement for 1877, showing the production and shipments, etc., of oil; the exports and value of each kind of oil exported in 1877 (from the United States Bureau of Statistics); the total export of petroleum in 1877, from New York, Boston, Philadelphia, Baltimore, and Richmond; a table of the production of oil and number of wells drilled in 1877, by districts; the price of oil each month, from 1859 to 1877; the average daily production each month, from 1870 to 1877, and the total stock of crude petroleum in the oil-producing fields at the close of each month, from 1870 to 1877.

Tobacco (3 pages).—A statistical table showing the exports of leaf tobacco from the United States each year, from 1790 to 1877, and a review of the production of tobacco in Lancaster county, by Willard T. Black.

Strikes (26 pages).—This heading comprises a textual article on strikes, by Richard Vaux, with a table showing the occupations and educational condition of 257 convicts, from 18 to 25 years of age, admitted into the eastern state penitentiary during the year 1877.

Financial (16 pages).—This consists entirely of statistical tables giving a list of the national banks in the state, with their location, amount of capital stock and circulation outstanding, October 1, 1877; the resources and liabilities of national banks in Pennsylvania, Philadelphia, and Pittsburgh, June 22, 1877, and October 1, 1877; the dividends and earnings of national banks in Pennsylvania, Philadelphia, and Pittsburgh, with their ratios to capital and surplus fund, semi-annually, from March 1, 1869, to September 1, 1877; the receipts and expenditures of the state, by items, in 1877, with a recapitulation, by months; and a statement of the public debt of the state, December 1, 1877.

Insurance (7 pages).—Statistical tables showing the amount of business done by the insurance companies of the state, their income, losses, etc.; and their condition in 1876.

Coal statistics (245 pages).—Under this heading are given separate reports from a large number of companies engaged in the mining of coal, showing, by counties, for anthracite and bituminous coal mines separately, the number of employes (men and boys) in each mine; their hours of labor and average wages, by occupations; the number of days the mine was in operation during the year, and the quantity and value of the annual product, etc. These reports are combined in general tables presenting the same facts, by companies and counties. Additional tables for anthracite coal mines give the amount of coal shipped from the Shamokin region each year, from 1839 to 1877; an estimate of the extent of the anthracite coal fields of the state; the coal production of the globe in 1874, by countries; the production, expenses, and cost per ton of collieries owned by the Philadelphia and Reading Coal and Iron Company, each year, from 1873 to 1877, by months; their production for the same period, by individual collieries; and the operation of the beneficial fund of the company in 1877.

Coal mine inspectors' reports (118 pages).—These are separate reports by district inspectors of bituminous coal mines, giving a textual description of the different mines located in their districts. The reports are accompanied by maps and several plans illustrating the improved methods of working bituminous coal mines in Pennsylvania. Statistical tables give a list of all collieries, by name; their capacity and ventilation; the number of employes (men and boys); the total production; and

a list of accidents, with their nature and causes, and a statement of the names, ages, and conjugal condition of the sufferers.

Tanneries, paper mills, the iron trade, glass works, cotton mills, and woollen mills (100 pages).—Under these several headings are given textual descriptions of a number of firms engaged in each of the above mentioned industries, showing their condition, the number of employes, the value of the annual product, etc.; and statistical tables giving, by counties and establishments, for tanneries and iron industries, the number of employes, the amount of capital invested, the amount paid annually for wages, the daily wages of employes, and the cost of raw material and the value of annual product.

Railroad labor report (46 pages).—This topic embraces statistical tables giving, for each road separately, by occupations, the number of employes, their wages and hours of labor, and the number of days worked during the year.

Lehigh valley (10 pages).—A textual consideration of the means of communication in Lehigh valley, treating briefly of the early modes of travelling, the progress and utility of highways, navigation, and the railroads traversing the valley, with short tables giving the production and shipment of coal by decades, from 1820 to 1870; the number of passengers and the amount of freight carried, and the receipts, by sources, of the Lehigh Valley railroad in 1876.

Philadelphia (17 pages).—A brief textual consideration of the industrial establishments, public improvements, permanent exhibition, and railroad connections of the city, and tables giving the quantity and value of exports of the city in 1877, by countries and by articles; the number of vessels entering the port in 1877, with their tonnage, by nationality, and the number clearing the port in 1877, by nationality, with their tonnage and the value of cargo; the number of vessels with the number of their crews, entering and clearing in the coastwise trade in 1877; and the value of exports of breadstuffs, provisions, and petroleum in 1877, by countries.

Valley of the Schuylkill (12 pages).—This consists of a brief textual description of the valley, and tables giving the receipts of the Philadelphia and Reading Railroad Company from passengers and freight, etc., in 1877; the number of passengers and the amount of coal and merchandise carried each year, from 1874 to 1877; the amount of coal carried, by places from which it was received, and the amounts delivered at different places; the distribution of coal carried on the Schuylkill canal in 1877; and the items of cost, in detail, of hauling coal on the Philadelphia and Reading road for the year ending November 30, 1877.

Industries (49 pages).—Under this heading are grouped reports from a number of establishments engaged in various branches of industry in the state, viz: Slate, zinc, stoneware, fire brick, carriages, powder, steel, shipbuilding, tool manufacture, furniture, lightning rods, glue, soap, bone dust, etc., ochre works, knitting mills, lumber, planing mills, and sash and door factories. Statistical tables give, for most industries, the amount of capital employed and the value of the annual product; the number of employes (men and boys), and their wages, hours of labor, and the number of days the establishment was in operation. Tables for lumber firms reporting give their product, by articles.

Wages in Pennsylvania (13 pages).—Statistical tables showing the rates of wages paid per day in coal mines, blast furnaces, rolling mills, iron foundries and machine shops, bridge building, lumber mills, glass works, cotton mills, calico printing, woollen mills, and tanneries, during the year 1876.

Valuation, taxation, and indebtedness (107 pages).—Statistical tables based on returns from township and municipal clerks and secretaries of school boards, showing, for each county separately, by townships, the assessed value of real estate, the rate of taxation for each purpose, the amount of township, municipal, and school indebtedness, the value of municipal property, the value of school property, and the number of taxables.

Somerset county (6 pages).—Statistical tables showing, by districts, the number and

value of houses, barns, mills, etc.; the number of church members, by denominations, and the amounts of agricultural products in 1876.

Paper and its manufacture (13 pages).—A textual account and history of paper manufacture and of paper manufactories in the state, with an article on printing and newspapers by W. D. Blackburn.

SIXTH ANNUAL REPORT, 1877-'78.—[769 PAGES.]

United States and state governments (15 pages).—This gives a list of the names of the governor, heads of departments of the state, and members of the state legislature; the names of the counties, with the dates of their organization; and the names of county towns and their distances from Washington and Harrisburg. Historical and statistical tables of the United States show when, where, and by whom each state was settled; when it adopted the Constitution; date of its admission into the Union; its area and population in 1870; its seat of government; the date of holding election, and of the meeting of its legislature; and are followed by a list of American wars, with their duration and cost.

Financial (15 pages).—Statistical tables give the assets and liabilities of national banks in Pennsylvania, Philadelphia and Pittsburgh, June 29, 1878, and October 1, 1878; a list of national banks in the state, their location, amount of capital and circulation October 1, 1878; the dividends and earnings of national banks in Pennsylvania, Philadelphia and Pittsburgh, with their ratio to capital and surplus fund, semi-annually, March 1, 1869, to September 1, 1878; the receipts and expenditures of the state in 1878, by items; and the valuation and assessment of property, by counties.

Reports of inspectors of mines (303 pages).—These are separate reports of district inspectors of bituminous coal mines, giving a description of different mines and their operations during the year. The reports are accompanied by maps and several plans, illustrating the mode of ventilating and working bituminous coal mines in Pennsylvania, and statistical tables giving for each month, by collieries, the power used, the number of employes (men and boys), the number of tons produced, the condition of the mines as regards ventilation, etc., and a list of accidents, their nature and cause, and a statement of the names, ages, and conjugal condition of the sufferers.

Coal statistics (223 pages).—This topic comprises individual reports of a large number of companies giving, for bituminous and for anthracite coal mines separately, the number of employes (men and boys) in each mine; their hours of labor and daily wages, by occupations; the number of days the mine was in operation during the year; the quantity and value of the annual product, etc. These reports are combined in general tables, presenting the same facts by companies and counties, and are supplemented by an article on beehive coke ovens, by John Fulton, with an illustration showing the plan, elevation, and details, of beehive coke ovens of the Cambria Iron Company at Bennington shaft. Additional tables for anthracite coal mines give the amount of coal shipped from the Shamokin region each year, from 1839 to 1878; an estimate of the extent of the anthracite coal fields of the state; the coal production of the globe in 1876, by countries; the production, expenses, and average cost per ton of coal at collieries worked by the Philadelphia and Reading Coal and Iron Company, each year, from 1871 to 1878, by months, and their production each year, from 1871 to 1878, by individual collieries; the number of accidents at the same collieries, by years, from 1873 to 1878, showing the character of the accidents; and the operation of the beneficial fund of the company in 1878; tables showing the operations of the Philadelphia and Reading Railroad Company, giving the number of passengers and the amount of coal, etc., carried each year, from 1875 to 1878; the amount of coal carried to different points of supply and distribution; and the amount of merchandise transported, by articles; the receipts of the company, by sources, and expenses, by classes of items; the tonnage of freight carried each year, from 1850 to 1878; the extent of each of the several roads operated by the Philadelphia

and Reading railroad, November 30, 1878; the detailed items of cost in hauling coal on this road in 1878; and the detailed cost of running passenger trains and general freight trains.

Railroad labor report (36 pages).—Statistical tables with textual comments, giving, by roads, the number of employes, by occupations, their hours of labor and wages, and in some cases the number of days employed during the year.

Founderies and machine shops, blast furnaces, rolling mills, lumber, cotton mills, woollen mills, and tanneries (168 pages).—Reports from individual firms engaged in the above-mentioned industries, giving the number of their employes; their hours of labor and wages, by occupations; the number of days in operation and the value of annual product, etc.

SEVENTH ANNUAL REPORT, 1878-'79.—[663 PAGES.]

Report of bureau (11 pages).

Coal (37 pages).—Under this heading are included a paper, prepared by P. W. Sheaffer, giving a brief historical account of the early development of anthracite coal in Dauphin county, and statistical tables showing the production of anthracite coal in the state, by districts and by years, from 1820 to 1879; the area and estimated contents of the anthracite coal fields of the state; also tabulated reports of 149 anthracite and of 96 bituminous collieries in the state, giving their names, date when opened, quantity and value of annual product, the amount paid for material and wages of employes, the number of employes, by classified occupations, with the daily wages paid each class, the number of hours worked per day and the number of days in operation during the year, with recapitulations, by counties and occupations; and a summary of accidents at collieries worked by the Philadelphia and Reading Coal and Iron Company, each year, from 1873 to 1879.

Iron and steel (86 pages).—Statistical tables, with textual comments, treating each branch of the iron industry separately. Tables give lists of bloomeries for manufacturing blooms from pig iron and scrap iron, of blast furnaces, of rolling mills, and of iron founderies and machine shops of the state, showing for each establishment its location, when built, capacity and annual product, number of employes, etc., and in most cases the number of weeks in operation during the year, the number of employes, by classified occupations, and the daily wages paid each class. Other tables give a comparison of operations at Cove Forge, Pennsylvania, for the years 1857, 1863, 1871, and 1879, giving for each year the number of employes and their wages, by occupations, the length of time in operation and the amount of product; prices of various grades of iron, for 1878 and 1879; the number and capacity of blast furnaces, rolling mills, steel works, and bloomeries in the United States and in Pennsylvania; a list of blast furnaces of Pittsburgh; the product and percentage of total product of pig iron, each year, from 1874 to 1878, in the United States, Pennsylvania, and in Allegheny county; the production of rolled iron each year, from 1874 to 1878, and of steel, for 1877 and 1878, in the United States and in Allegheny county, with percentage of total product; wages paid in the tin plate industry and at the Bethlehem Iron Works; the imports of iron, each year, from 1862 to 1878, and of steel rails, each year, from 1871 to 1879, with the rate and amount of duty paid; and the number of persons employed in the steel works of the state, arranged by classified occupations, with the daily wages paid each class.

Arbitration and conciliation (48 pages).—This is a textual consideration of arbitration and conciliation based on a report to Governor Hartranft, by Joseph D. Weeks, giving an account of arbitration in England and in Pennsylvania, and embracing short tables and copies of memoranda of agreements fixing a scale of wages and prices, as follows: Pittsburgh, price for boiling iron, made February 13, 1865; Pittsburgh, price for boiling, July 23, 1867; Pittsburgh, price for boiling, May, 1879; Pittsburgh, price for rolling and heating, October 17, 1879; prices of iron and nails at Pittsburgh, each year, from 1864 to 1880; and a schedule of wages paid at the

Hughes and Patterson Iron Works of Philadelphia, September, 1878; the price of coal in the Schuylkill valley and wages of employes, by occupations, in 1879; and a chart comparing the prices for boiling iron with those for mining coal, by years, from 1870 to 1879.

Glass, textile fabrics, boots and shoes, lumber, and tanneries (76 pages).—Statistical tables based on returns from manufacturers, giving in separate tables for each industry and subdivision of industries, by establishments, and recapitulations by counties, the number of employes, with their average daily wages, number of days the establishment was in operation, and value of annual product, etc.

Tobacco (3 pages).—A textual account of the tobacco crop of Lancaster county in 1879, by Frank H. Diffenderfer.

Petroleum (13 pages).—Statistical tables giving the production, amount of stock on hand, and number of wells, etc., of Pennsylvania for December, 1879, by districts; shipments of oil in December, 1879, by roads; the United Pipe Lines' report, showing their condition at the close of business, December 31, 1879, and the amount of outstanding certificates each month, for 1878 and 1879; exports from the United States, for the years 1877, 1878, 1879, by ports; the production of oil in Pennsylvania; exports, by months, from the United States in 1879; the condition of petroleum production for November and December, 1878 and 1879, and the number of drilling wells, amount of stock on hand, amount of shipments, and production in Pennsylvania, by years, for each month, from 1870 to 1879.

Railroad labor report (15 pages).—Statistical tables giving, by names of roads, the number of employes of each and their average wages, by occupations.

Miscellaneous manufactures (30 pages).—Under this heading are presented the returns from a number of firms engaged in the manufacture of agricultural implements, axes and edge tools, bolts and nuts, brass castings, carriages and wagons, chains, furniture, fire brick, iron bridges, etc., locks, paper, printed books and stationery, portable engines, railroad axles, railroad cars, light locomotives, sash, doors, etc., saws, etc., files and rasps, slate, steam boilers, tanks, sheet iron works, stone and earthen ware, wrought iron pipe; in shipbuilding; and in paperhanging, giving the number of employes, annual capacity, the value of the annual product, and in a number of cases the daily wages paid to employes, by occupations.

Earnings (33 pages).—Statistical tables based on returns from employes, representing eighty-five different occupations, giving, by occupations, the average weekly wages, number of weeks worked, and yearly earnings; and by individuals, their weekly wages, occupations, ages, earnings, hours of labor, the number in family, their earnings, and expenses in detail, etc.

Payment of wages (36 pages).—A textual consideration of the method of paying wages by company scrip, with illustrations of scrip used by several establishments in the state, and the laws of New Jersey and Ohio on the subject.

Reports of inspectors of mines (267 pages).—Separate reports of district inspectors of coal mines give textual accounts of the mines visited, with maps; and statistical tables present the names, location, power, capacity, and ventilation of the respective collieries in each district, with the number of employes and the amount of product; and lists of accidents with their nature and cause, giving the name, age, and conjugal condition of each person injured, for the year 1879.

EIGHTH ANNUAL REPORT, 1879-'80.—[474 PAGES.]

Report of bureau (5 pages).—A statement of the methods employed by the bureau in conducting its investigation, and a tabular statement of the population, for 1870 and 1880; square miles and number of acres in the several counties of the state, with the names of the county towns.

The anthracite coal fields of Pennsylvania and their exhaustion (14 pages).—This topic embraces an article prepared by P. W. Sheaffer, on the anthracite coal supply of the

state, with tables giving the output of anthracite coal of the Schuylkill, Lehigh, and Wyoming districts, each year, from 1820 to 1880; the coal product of the United States, for 1869 and 1878, by states; coal exports in 1878, by countries; the area of the anthracite coal fields of the state, by companies; and the extent of the coal fields of Great Britain.

Coal (12 pages).—Statistical tables giving, by counties and operators, the area of coal lands owned and operated by 442 collieries, the number of employes, the number of days in operation, and the product during the past year.

Iron and steel (42 pages).—Statistical tables, with textual comments, giving the production of pig iron in the United States, by states and territories, and of Pennsylvania and Ohio, by districts, each year, from 1872 to 1880, according to fuel used; the condition of blast furnaces of the United States, by states, and of Pennsylvania and Ohio, by districts, in 1880; the production of Bessemer steel ingots and of steel rails in the United States, by years, from 1872 to 1880; a list of blast furnaces and of rolling mills in the state, by counties, giving the number of employes, kind of fuel used, number of days in operation during the year, etc., of each; the average wages, by occupations, paid in the Bethlehem Iron Works; the number and capacity of iron and steel works of the United States; the production of the iron and steel works and of rolling mills of the United States, by articles, for 1870 and 1880, and of Bessemer and open-hearth steel works in 1880; the number of iron and steel establishments, the amount of capital invested, etc., in the United States, by geographical divisions; the production of iron, by states, for 1870 and 1880; a list of the principal counties of various states having the largest production; the quantities of different minerals used in the iron and steel works of the country in 1880. A set of general tables gives, by states, the number of all blast furnaces, rolling mills, steel works, forges, and bloomeries in the United States in 1880; the amount of capital invested; their production; number of employes (men, women, and children), etc.; and a list of 140 iron foundries of the state, by counties, giving their capacity, the number of employes, and the number of days in operation.

Glass, carriages and wagons, lumber, tanneries, miscellaneous industries (23 pages).—This consists of statistical tables based on returns from manufacturers engaged in the above-mentioned industries, giving, in separate tables for each industry and subdivision of industries, by counties, the number of establishments, number of employes, the number of days or weeks in operation, and in most cases the quantity or value of the annual product.

Textile fabrics (45 pages).—This topic embraces a brief review of the textile industries of Philadelphia and vicinity, and statistical tables, giving separately for each branch of the textile industry a list of establishments at Philadelphia, the power used, kind of goods manufactured, and the number of looms, spindles, etc. There are also similar tables for the state, by counties. Other tables from the United States census of 1880 give, by states, the number of looms and spindles, the number of employes, and the number of bales of cotton consumed in the cotton manufacture of the United States, the product of silk in the United States, by articles; the number of silk factories in the United States, the amount of capital invested, the value of products, and the number of employes, by sex, etc., by states.

Petroleum (9 pages).—Statistical tables giving a statement made by the United Pipe Lines, showing the amount of their stock, surplus, receipts, and deliveries for each month, beginning with April, 1877, to 1880; the number of producing wells, new wells, and wells drilling, and the production, shipments, etc., by years and months, from 1870 to 1880; also tables showing exports of petroleum, by cities, each year, from 1875 to 1880; the amount of petroleum produced, and quantity and value exported from the United States, by years, from 1864 to 1880.

Railroads of Pennsylvania (9 pages).—Statistical tables show, for each road in the state, the number of miles operated, number of bridges, the number of the several classes of cars, and the amount of freight transported during the year 1880.

Agricultural (16 pages).—A textual and statistical comparison of the condition of agriculture in the state for the past ten years. Tables give the acreage, yield, and value of the different agricultural productions of the state and of the United States, by years, from 1871 to 1880, and the number and value of horses, mules, and cows in the state during the same period.

Census of industries of Philadelphia (3 pages).—Statistical tables, giving the number of different industrial establishments of the city, their capital, number of employes, total amount paid in wages, and value of the material and of the product.

Imports and exports of the United States (9 pages).—Statistical tables from the United States Bureau of Statistics, giving the imports and exports of the United States, by articles, and the imports of iron ore, by countries, for 1879 and 1880.

Immigration (2 pages).—A statistical table giving the number of immigrants who arrived in each customs district of the United States during each year, from 1871 to 1880.

Wages (64 pages).—This subject includes an article on wages, with brief remarks on the truck system in England and in Pennsylvania, and tables compiled from operators' reports giving, by counties, for 1880, for each industry, the wages and yearly earnings of employes, by occupations, in anthracite and bituminous coal mines, blast furnaces, rolling mills, Bessemer steel works, iron foundries, glass works, lumber trade, carriage and wagon works, tanneries, textile fabric manufactures; on railroads, by names of roads; miscellaneous industries; and farm laborers, for 1879 and 1880. Tabulated statements, based on 299 employes' returns, give, by individuals, the occupation, age, hours of labor, wages and yearly earnings, number in family, family earnings, total expenses, etc. Other tables give the prices of staple commodities in different sections throughout the state, December 31, 1880.

School statistics (6 pages).—Statistical tables, giving the number of schools, teachers, and scholars, the amount of tax levied for school purposes, the receipts, expenditures, resources, and liabilities of the state, by counties; and a table showing the number of teachers and scholars, the cost of building and instruction, receipts, and salaries paid teachers, etc., for the state, excluding Philadelphia, for each year since the establishment of the school system under the present law, from 1854 to 1880.

United States and territories (4 pages).—Two statistical tables giving, by states, the area of each, date of organization of territories, date of admission as states, and the population each decade, from 1800 to 1880.

Building and loan associations (20 pages).—This embraces an article by John H. Kerr on the purpose, workings, and results of building and loan associations, and tables giving for 163 building associations of the state, by counties and names of associations, the date of incorporation of each, its capital stock, value of shares, number of shareholders, receipts from each source, its disbursements, assets, and liabilities.

Reports of inspectors of mines (138 pages).—Separate reports of district inspectors of bituminous coal mines give textual accounts of mines visited, of mine improvements, etc., with illustrations of mines; and statistical tables present lists of the collieries, by name, location, and name of superintendent with postoffice address; the number of employes, the power employed, and the annual product of each mine; general statistics of ventilation for each month during the year 1880; and list of accidents, giving the name, age, and conjugal condition of each person injured, and the nature and cause of the accidents.

Labor laws of Pennsylvania (44 pages).—Copies of acts passed by the state legislature relating to labor are here presented, providing for exemption from execution; relating to attachment of wages; regulating the hours of labor; limiting the age of children employed in factories and in mines; regulating the hours of labor of children; requiring fire escapes for factories, etc.; relating to mutual aid societies; to conspiracy; regulating the methods of measuring coal at mines; confining certain corporations to purposes for which created; securing wages in cases of insolvency; prohibiting the stay of execution on judgments for wages; providing for the health and safety of employes in coal mines; and for the inspection of mines, etc.

NINTH ANNUAL REPORT, 1880-'81.—[650 PAGES.]

Report of bureau (5 pages).

Coal and coke, iron and steel, glass, lumber, tanneries, textile fabrics, miscellaneous industries (111 pages).—Under the above headings are given statistical tables based on returns from manufacturers, showing separately for each industry and subdivision of industries, by establishments and counties, the number of employes, the total amount paid in wages, the number of days in operation, and the amount of product, etc. For textile fabrics the number of looms and spindles is also given.

The available tonnage of the bituminous coal fields of Pennsylvania (16 pages).—A textual and statistical paper by Dr. H. M. Chance, assistant geologist of the Pennsylvania geological survey. The tables give, by counties and beds, the average coal thickness, area, and tons of coal contained, and an estimate of the increase of the yearly output, from 1880 to 1940, by decades.

Fire escapes (20 pages).—A statistical table, showing the condition of mills engaged in the manufacture of textile fabrics throughout the state, with reference to the height of buildings, the number employed on each floor, and the means of escape in case of fire or panic.

Factory regulations (10 pages).—A textual consideration of the progress of factory legislation.

Pennsylvania oil fields (4 pages).—Statistical tables giving, by districts, the production of oil for the year 1881, the number of wells drilling, and the number of producing wells December 31, 1881; the amount of shipments and of stock on hand, the number of wells drilling and the number of producing wells, each month, for the years 1870 to 1881.

Railroad statistics (12 pages).—Statistical tables giving, by roads, the number of miles operated, the number of bridges, etc., and the amount of freight carried, by articles, during the year 1881.

Employes (16 pages).—Statistical tables present employers' returns, giving the number of employes engaged in the various industries of the state, by industries and occupations, and their average wages, each year, from 1875 to 1881; the returns from employes giving, by individuals, the age, occupation, hours of labor, wages, the total earnings and expenses, etc.; and an exhibit, by counties, of the average retail prices of groceries, provisions, etc., for 1880 and 1881.

Payment of wages (6 pages).—A textual consideration of the frequency and methods of payment of wages in the state.

United States census (78 pages).—Statistical tables from the United States census of 1880, giving the population of the state, by counties and local subdivisions; the population, area, number of families, acres of land to a person, etc., for the Union, by states and territories, and the number of manufacturing establishments, the number of employes, amount of capital invested, and the value of the annual products of twenty of the principal cities of the Union.

School statistics (4 pages).—This consists of tabular statements, giving for the state, by counties, the number of schools, teachers, and scholars, the amount of taxes levied for school purposes, and itemized accounts of receipts and expenditures for the school year ending June 6, 1881.

Labor troubles in Pennsylvania (130 pages).—A textual chronological account of labor troubles in the state from 1835 to 1881, embracing a few short tables, giving, by names of employes, the wages of bookfolders in Philadelphia, June, 1835; scales of prices agreed upon between boilers and manufacturers, February 13, 1865, and July 23, 1867; with a summarized statement showing the occupations of strikers, and the location, causes, and results of strikes.

Reports of inspectors of mines (187 pages).—These are separate reports of district inspectors of bituminous coal mines. Each report gives a textual account of mines visited, of mine improvements, etc., with maps and illustrations of mines, and statistical tables giving a list of all collieries, by name, location, and name of superin-

tendent, with post office address; the number of employ  s, the power employed, and the annual product of each mine; general statistics of ventilation for each month during the year 1881; and a list of accidents, with their nature and cause, giving the name, age, and conjugal condition of each person injured.

Labor laws of Pennsylvania (55 pages).—These are copies of acts passed by the state legislature, providing for exemption from execution; relating to attachment of wages; regulating the hours of labor; limiting the age of children employed in factories and in mines; requiring fire escapes for factories; relating to mutual aid associations; to conspiracy; regulating the methods of measuring coal at mines; confining certain corporations to purposes for which created; securing wages in cases of insolvency; providing for payment of wages in legal tender; for the health and safety of employ  s in coal mines; and for the protection of children from neglect and cruelty, etc.

TENTH ANNUAL REPORT, 1881-'82.—[405 PAGES.]

Report of bureau (4 pages).

Coal and coke statistics (2 pages).—Tables showing the number of collieries, persons employed, wages paid, etc.

The iron and steel industries of Pennsylvania (37 pages).—A textual history by James M. Swank, of the use of iron from the earliest times, of its early use in Europe, the processes used in the manufacture of iron in early times, the manufacture of iron in the American colonies, and its manufacture in Pennsylvania from the settlement of the state to 1882. Short concluding tables give the production of the various forms of iron and steel for 1882 in the United States and in Pennsylvania; the number of the different iron and steel works in the state, by counties; and the number in the United States and in Pennsylvania, and percentage of the latter to the whole.

The textile industries of Philadelphia and eastern Pennsylvania (10 pages).—This topic embraces a general review of the subject by Lorin Blodgett, with two short tables. One table presents a summary of the textile industries of Philadelphia, showing the number of establishments and the number of their employ  s (men, women, and children), by classes of textile industries; the other gives the number of establishments of all kinds in the city and the number of their employ  s (men, women, and children), by wards.

Coal, iron, glass, lumber, tanneries, textile fabrics, and miscellaneous industries (13 pages).—Statistical tables based on returns from manufacturers, giving separately for each industry and subdivision of industries, by counties, the number of establishments, number of employ  s, the total amount paid in wages, the number of days in operation, the amount of product for the year 1882, etc. For textile fabrics the number of spindles and looms is also given.

Oil (5 pages).—Statistical tables giving the production of Pennsylvania and New York oil fields, by districts, in 1882; the average daily production, the amount shipped, the stock on hand, the number of wells drilling and the number of producing wells each month, for each year, from 1871 to 1882, and the exports of petroleum, by customs districts, in December, 1882.

Employ  s (16 pages).—Statistical tables giving the number of employ  s, by industries and occupations, compiled from employers' returns, with their average wages, by occupations and industries, each year, from 1875 to 1882, except wages of employ  s in Bessemer steel works, which are given for the years 1880, 1881, and 1882; returns from employ  s, giving, by individuals, their ages, occupations, hours of labor, wages, how often paid, their total earnings and expenses, etc.; and a list of average retail prices of groceries, provisions, etc., for 1881 and 1882, by counties.

Statistics of manufactures (7 pages).—This includes statistical tables from the United States census of 1880, giving for the United States, by states and territories, the total number of industrial establishments, their capital, number of employ  s (men, women, and children), and their nationality, the total amount paid in wages, and the value

of raw material and products, for 1870 and 1880; the same facts are presented for Pennsylvania, by counties, for 1880, and also by selected industries.

Occupations (39 pages).—Statistical tables from the United States census of 1880, with textual comments, giving, by classes of occupations, the number of employes in the United States; the population, by age periods; the number employed in all occupations, for 1870 and 1880, with percentage of increase, by states and territories; the population and number engaged in occupations in fifty principal cities of the Union; the number of persons in the United States engaged in various occupations, by states and territories; the number engaged in occupations, arranged according to age periods, sex, nativity, and classes of occupations, by states and territories, and also by detailed occupations.

Tariff of 1883 (14 pages).—A copy of the principal schedules of the tariff act of 1883, affecting the following industries, viz: Earthenware and glassware, metals, cotton and cotton goods, hemp, jute, and flax goods, wool and woollens, silk and silk goods.

Labor troubles in Pennsylvania, 1882 (49 pages).—Under this heading are given a brief sketch of the principal strikes and lockouts which occurred in the state during the year 1882, with a tabular statement giving the number of persons engaged in strikes and their estimated loss in wages; and a table showing the average selling price of bar iron each year, from 1844 to 1882, and the price paid for boiling at Pittsburgh from the introduction of that method of making iron in 1837 down to 1882.

Mining laws of Great Britain (39 pages).—Copies of laws relating to the regulation of coal mines and certain other mines in Great Britain.

Reports of inspectors of mines (163 pages).—Separate reports of district inspectors of bituminous coal mines, contain textual accounts of mines visited, of mine improvements, etc., with illustrations of mines, apparatus, etc., and statistical tables present lists of all the collieries, by name, location, and name of superintendent, with post office address; the number of employes, the power used, and the annual product of each mine; general statistics of ventilation for each month during the year 1882; and lists of accidents, with their nature and cause, giving the name, age, and conjugal condition of each person injured.

ELEVENTH ANNUAL REPORT, 1882-'83.—[370 PAGES.]

Report of bureau (11 pages).—This includes a statement of the duties pertaining to the bureau, the methods employed in conducting its investigation, with suggestions for promoting its efficiency, and brief remarks on imported contract labor, convict contract labor, employer's liability, and the convention of commissioners of labor statistics, September 25, 1883.

Coal and coke (2 pages).—This gives the number of collieries in the anthracite and bituminous coal fields of the state, showing number of persons employed, coal produced, amount paid for wages, etc.

The production of iron and steel in Pennsylvania (10 pages).—This heading embraces a statistical report by James M. Swank relating to the iron and steel industry of the state, giving in a series of short tables the production of all kinds of pig iron, of iron and steel rails, and of all forms of rolled iron in the United States and, separately, in Pennsylvania and in Allegheny county for 1883, and for immediately preceding years.

Coal and coke, iron ore, iron foundries, glass, lumber, tanneries, breweries and distilleries, and miscellaneous manufactures (39 pages).—These headings embrace statistical tables based on returns from manufacturers, giving, separately, for each industry and subdivision of industries, by counties, the number of establishments, number of employes, the total amount paid in wages, the number of days in operation, and the amount of product in 1883, etc.

Petroleum (11 pages).—Contains statistical tables giving for each establishment making returns the number of wells operated, the average cost of drilling a well, of

producing and piping one barrel, the average selling price of oil in 1883, the average wages of employes, the number employed, etc.; for refiners, by establishments, the number of employes, the amount paid in wages, the cost of producing one barrel of refined oil, etc., and the amount of product in 1883; a statement of the United Pipe Lines showing, by months, each year, from 1877 to 1884, their stocks, receipts, deliveries, etc.; the yearly production of the several oil districts of Pennsylvania and New York, by years, from 1859 to 1883, and the total production and exportation of oil of the United States, each year, from 1864 to 1883.

Textile industries (14 pages).—This embraces an article on the textile interests of Philadelphia, by T. C. Search, and a table giving, by counties and kinds of goods manufactured, the number of establishments, spindles and looms, the number of days in operation, the number of employes, and the amount of product for the year 1883.

Flour milling industry (11 pages).—A textual article, with illustrations of machinery and buildings, by Thomas McFeely; and a table giving, by counties, the number of flour and grist mills in the state, the number of employes, the total amount paid in wages, the product, the kind of power used, etc.

Slate industry (7 pages).—This topic includes a report on the slate mining and manufacturing industry, and a table giving, by counties, the number of establishments engaged in this industry, the amount paid in wages, the number of employes, time in operation, and the product for the year 1883.

Street railways (1 page).—A table giving, by cities, the number of lines operated, the number of hours operated each day, number of employes, and total amount paid in wages during the year.

Employes (3 pages).—An exhibit of the number of employes engaged in the various industries in the state, compiled from returns made to the bureau for the year 1883.

Employes' wages (8 pages).—Statistical tables giving average wages in various occupations and industries, by years, from 1875 to 1883.

Testimony of employes (27 pages).—Statistical tables giving returns from employes, showing the occupation of each, his hours of labor, the number of days lost, how often wages are paid, the condition of his home and surroundings, and the average monthly rent; with textual extracts from these returns.

Labor troubles in Pennsylvania during 1883 (21 pages).—This is a textual consideration of labor troubles in the state during the year, with a copy of a scale of wages and prices adopted by the National Window Glass Association, July 14, 1881.

Temporary methods of treating injured persons (3 pages).—Textual directions, with illustrations showing the temporary method of application of bandages until medical aid can be procured.

Mine inspectors' reports (153 pages).—Separate reports of district inspectors of bituminous coal mines give textual accounts of mines visited, of mine improvements, etc., with illustrations of mines, apparatus, etc.; and statistical tables present lists of all the collieries, by name, location, name of superintendent, and his post office address; the number of employes, the power used, and the annual product; general statistics of ventilation; and a list of mining casualties occurring during the year, with a description of the nature and the cause of the accidents.

Conspiracy laws (5 pages).—This heading embraces a brief account of the trial of journeymen boot and shoe makers in Philadelphia, in 1806, on an indictment for conspiracy to raise their wages; and copies of the acts passed by the legislature relative to combinations of workmen to secure higher wages.

Labor laws (29 pages).—Under this head are given copies of laws of the state passed by the legislature in 1883 relating to conspiracy; providing for licensing employment offices; for arbitration of labor disputes; for evening schools; prohibiting the convict contract system; requiring prison-made goods to be stamped; preventing exemption on judgments for wages for manual labor; regulating the methods of measuring coal at mines; securing wages in cases of insolvency; providing for the health and safety of employes in coal mines; and for ambulances at mines, etc.

TWELFTH ANNUAL REPORT, 1884.—[442 PAGES.]

Report of bureau (8 pages).—This includes a statement regarding the duties of the bureau and the methods employed in conducting its investigations, with brief remarks on the labor problem; the enforcement of legislation passed for the protection of wageworkers; the decennial census; industrial schools; and the second annual convention of the chiefs of the state labor statistical bureaus, June 9, 1884.

Wages in Great Britain and Pennsylvania (45 pages).—This subject embraces a series of statistical tables, with textual comments, derived from data collected by the bureau and from the works of Mulhall, Walker, Young, the census of 1880, and from consular reports. The information therein presented is as follows: Wages in the coal mines, rolling mills, bloomaries and forges, and iron ore mines in Pennsylvania, based on full working time and on actual time employed; wages in coal mines in England; wages in rolling mills in England and in Pennsylvania; wages in rolling mills in Pennsylvania for three counties separately; wages in the rolling mills in Pennsylvania each year, from 1873 to 1883; wages in blast furnaces in Pennsylvania; wages in the Bessemer and crucible steel works in Pennsylvania, each year, from 1880 to 1883; wages in textile establishments in England and Pennsylvania; wages of railroad employes in England; wages of railroad employes in Pennsylvania, each year, from 1875 to 1884; wages of glassworkers in France, Rheims, department of Gironde, Belgium, Brussels, England, Prussia, Silesia, Stuttgart, and in Pennsylvania, each year, from 1879 to 1884; wages in general trades in England and in Pennsylvania; a summary of wages in the several industries in Pennsylvania; the retail prices of necessities of life in England and Pennsylvania; Franklin's table of food required to lift a male adult (10 stone) 10,000 feet, and the foot-tons of energy per ounce of various foods. In the tables relating to wages the facts are shown, by occupations. The text gives an abstract of English factory laws, and a general consideration of the condition of labor in England and Pennsylvania.

Testimony of employes (17 pages).—Textual extracts from returns of employes, and tables giving, by individuals, the occupation, wages, cost of living in detail, etc.

Immigrant labor (9 pages).—This is a textual article on the importation of contract and other laborers from European countries, particularly from Italy, Poland, and Hungary, and the effect of their colonization on the working classes, with pertinent remarks on the subject.

The manufacture of steel in Pennsylvania (7 pages).—A textual historical sketch by James M. Swank; and tables, giving by years, from 1874 to 1884, the production of all kinds of steel in various states and in the United States, and the total production of 1883 and 1884 compared, by articles.

Labor troubles in Pennsylvania (10 pages).—This is a textual account of the labor troubles in the coal regions during the year, including a copy of the scale of prices as fixed by Joseph D. Weeks, arbitrator of the railroad coal tribunal of the fifth judicial district, February 11, 1885.

Miscellaneous industries (66 pages).—This heading embraces a review of the textile industries for 1884 by Charles Heber Clark, and a series of statistical tables based on returns from manufacturers engaged in the following industries: Coal, iron and its products, textile fabrics, printing and publishing, glass, flour and grist mills, lumber and its products, tanneries, morocco and other leather, clay and its products, slate, breweries, distilled liquors, and miscellaneous manufactures, giving, separately for each industry and subdivision of industries, by counties, the number of establishments, the number of employes, the total amount paid in wages, the number of days in operation, and amount of product, etc., in 1884. For textile fabrics the number of spindles and looms is given, also an account of the establishment textile schools; and in iron ore analyses of ores are given.

Petroleum refiners (7 pages).—Statistical tables show, by establishments in each county, their capacity, the amount paid in wages, product, cost of producing one

barrel of refined oil, etc., the quantities and values of petroleum exported for the period 1876 to 1884, by ports; the amount of petroleum produced and exported, by years, from 1864 to 1884; the number of producing wells, new wells, and wells drilling at the end of each month, for each year, from 1874 to 1885, and a report of receipts and deliveries of oil by pipe line companies for January, 1885.

Street railways (3 pages).—Statistical tables giving, by cities, the number of street railway employes of each class, their hours of labor, and average daily wages; also the number of lines operated in each city, the average number of hours per day run, the number of persons employed, and the total amount paid in wages.

Pullman, Illinois (24 pages).—A joint report by the chiefs and commissioners of the various bureaus of labor of an investigation of the economic experiment conducted by the Pullman Palace Car Company, at Pullman, Illinois. The sketch includes its history, methods of construction, illustrations of buildings and grounds, tables giving its growth in population, and death rate, by causes, and a brief discussion of wages, cost of living, health, etc.

Reports of inspectors of mines (239 pages).—Separate reports of district inspectors of bituminous coal mines give textual accounts of mines visited, of mine improvements, etc., with illustrations of mines, apparatus used, etc.; and statistical tables present lists of all the collieries, by name, location, name of superintendent, and his post office address; the number of employes, the power employed and the annual product of each mine; general statistics of ventilation for each month; and lists of mining casualties occurring during the year with their nature and cause, giving the name, age, and conjugal condition of each person injured.

THIRTEENTH ANNUAL REPORT, 1885.—[780 PAGES.]

Report of bureau (16 pages).—A general survey of the condition of labor and industry in the state. Short tables give the number of employes, the nature of their employment, the number of factories, quarries, etc., in Massachusetts, New Jersey, and Pennsylvania; the area and population of counties in the coal and petroleum regions of the state, and of those east of the Susquehanna river.

The manual training and technical schools of Philadelphia (16 pages).—A textual article by Prof. E. J. James, of the university of Pennsylvania.

Review of the textile industries for 1885 (19 pages).—Under this heading are presented a textual consideration of the condition of trade and labor in the textile industries, by Charles Heber Clark; short tables showing for each kind of product, by counties, for 1885, the number of establishments, the average number of days in operation, the number of employes, number of spindles and looms, the amount paid in wages, and the value of product; and a table giving, by industries, the number of employes, their average wages and number of days employed during the year.

The glass sand industry of the Juniata valley (8 pages).—This is a historical and descriptive sketch, with several illustrations, of the glass sand industry of the Juniata valley, by Walter C. Africa, with a table giving a list of firms engaged in this industry, the number of their employes, the average wages paid, and the amount of sand shipped by each, in 1885.

Cylinder or window glass (15 pages).—A textual and statistical description of the history of cylinder and flint glass manufacture in the state by D. Ihmsen, presents an account of the methods of manufacture, a list of firms engaged in this industry and their capacity, analyses of the cost of production for various kinds of products, and a list of average wages paid, by occupations. Tables also give, by counties, the number of establishments, the number of days in operation, the number of employes, the value of product, etc., for the year 1885.

Miscellaneous industries (55 pages).—This heading embraces statistical tables based on returns from manufacturers engaged in the following industries, viz: Iron and its products, oil refining, lumber and its products, paper and its products, leather

and its products, clay and its products, breweries, distilled liquors, and miscellaneous manufactures, giving, separately for each industry and subdivision of industries, by counties, the number of establishments, number of employes, the total amount paid in wages, the number of days in operation, value of products, etc., with a recapitulation presenting the same facts, by industries. A short table also gives, by counties, the number of publications, their frequency of issue, circulation, and amount paid in wages.

Street passenger railways (6 pages).—Statistical tables giving, by cities, the number of employes of each class, their daily wages and hours of labor; also the number of lines operated in each city, the total number of employes on each line, and the total amount paid in wages, etc.

Steam railway labor (2 pages).—A statistical table gives the number of railway employes of the state, by occupations, and their average monthly wages.

Testimony of employes (65 pages).—Testimony of employes concerning their condition is here presented, together with a number of short tables giving the cost and the average monthly consumption of articles in their families.

Reports of inspectors of mines (569 pages).—Separate reports of district inspectors of coal mines give textual accounts of mines visited, of mine improvements, etc., with illustrations of mines, apparatus used, etc., and statistical tables present lists of all the collieries, by name, location, name of superintendent, and his post office address; the number of employes, the power used and the annual product of each mine; general statistics of ventilation; lists of mining casualties occurring during the year, with a description of the nature and cause of accidents; and the number of coal mines and coke ovens in operation in the state, by counties, the number of days operated, the average number of persons employed, the amount paid in wages, and the annual production of coal and coke, for the year 1885.

FOURTEENTH ANNUAL REPORT, 1886.—[494 PAGES.]

Report of bureau (14 pages).—A textual consideration of the condition of labor in the state, including brief remarks on corporations, capital vs. labor, the status of wageworkers, labor laws, blacklisting, monthly payments, wageworkers and intemperance, workingwomen in factories, and the labor problem.

Homes for working people (21 pages).—A textual consideration, with illustrations, of houses for working people in various localities of the state, and estimates of the cost of dwellings, with illustrations showing cheap designs for workmen's homes.

Employment of children (15 pages).—A textual consideration of child labor in the state, with several extracts from acts passed by the state legislature relative to the subject, and tables showing the number of children, by ages, killed or injured in the coal industry of the state in 1885, with the cause or nature of each accident; and the percentage of children, of both sexes, between the ages of ten and fifteen years, to the total number of persons employed in all industries and in each of the four grand divisions of industrial pursuits, in thirteen different states.

School education vs. convicts (5 pages).—This consists of a textual and statistical consideration of the education of convicts. Tables give for 1876 and 1886 the number of schools, the number of teachers (male and female) and their salaries, the number of pupils enrolled and in attendance; and the educational acquirements of inmates (adults and minors) of the Pennsylvania penitentiaries, by counties.

The iron industries of Pennsylvania, 1886 (3 pages).—This topic comprises two tables, with textual comments, compiled from reports of James M. Swank, giving, by districts, the number of blast furnaces in the state and the quantity of the annual product in 1886; and the total production of iron and steel in the United States, each year, from 1875 to 1886, by kinds of products.

Reports of inspectors of mines (429 pages).—Separate reports of district inspectors of

coal mines give textual accounts of mine improvements, accidents, etc., with illustrations of mines, mine apparatus, etc.; and statistical tables present lists of all collieries, by name, location, name of superintendent, with post office address, the number of employes in each, by occupations, the number of days in operation, the number of accidents, the power used, and the annual product and shipment of each mine during the year 1886; lists of accidents, with their nature and causes, giving the name, occupation, and age of each person killed or injured; and a tabular statement, showing the yearly production of each company in the fourth anthracite district, for each year, from 1881 to 1886, the number of lives lost, and the average amount of coal produced by each company per life lost.

FIFTEENTH ANNUAL REPORT, 1887.—[581 PAGES.]

The alleviation of distress among workingmen (46 pages).—This subject embraces a textual consideration of the methods and extent of relieving distress among workingmen by their employers; copies of the constitutions of benefit associations connected with a number of firms in the state, and extracts from the statements of others as to the policy pursued by them.

Statistics of wages and earnings (53 pages).—These consist of tabular statements compiled from returns received from iron and steel working establishments, and from manufacturers of textile fabrics and carpets, giving, by establishments and occupations, the number of employes, the number of days employed during the year, their wages by the day and earnings for the year, and, in the case of one iron and steel works, the percentage of employes receiving certain daily wages, arranged according to classified groups of earnings.

Statistics relating to the time of employment (27 pages).—Statistical tables giving, by industries and establishments, the number of days each establishment was in operation during the year and the number of days it was idle from various causes; and a table compiled from returns received from employers, showing, as far as obtained, the number of persons employed in various industries in the state and their total earnings, classified according to employes receiving a man's full wages and those receiving less than a man's full wages.

The Cambria Iron Company (19 pages).—In accordance with a plan adopted by the bureau of devoting a part of each report to a detailed account of one or two leading industries of the state, a historical and descriptive account of the Cambria Iron Company's shops is here given, with several illustrations of the works, laborers' homes, hospital wards, library, etc., with description of each; and a table showing the extent of operations of the mutual benefit association connected with the establishment.

The Keystone Saw, Tool, Steel and File Works (15 pages).—Following the plan above, there is given a historical and descriptive account of the establishment of Henry Disston and Sons, containing an account of the works, of the condition of the laborers, etc., with numerous illustrations and short tables showing wages paid, by occupations, for the years 1872, 1877, 1882, and 1887; the prices of saws for the years 1870, 1875, 1880, 1885, and 1888; the rents of houses owned by the company; a balance sheet of the building association of the place; the number of employes and length of service with Disston; the amount of assistance rendered workingmen, by items, each year, from 1878 to 1887; the amount paid by the employes' association each year, from 1877 to 1887; and the number of books in the library, classified by subjects.

The employment of labor in the Connellsville coke region (18 pages).—A textual historical and descriptive account of the condition of labor in the Connellsville coke region and of the labor troubles occurring there. A short table gives the changes in the price of mining coal and of drawing coke for the years 1877, 1879, 1880, and 1884.

Statistics of strikes (31 pages).—Statistical tables from the Third Annual Report of the United States Bureau of Labor on Strikes and Lockouts, 1887, giving a list of strikes in Pennsylvania, by years, from 1881 to 1886, and by industries, showing for

each its locality, cause, date, duration, result, whether ordered by labor organizations or not, the losses to employers and employes, etc., with a recapitulation, by industries, for all years.

The Amalgamated Association of Iron and Steel Workers (27 pages).—A textual sketch of the history of the association, with reference to the rise and progress of methodical conciliation, and the sliding scale of wages and their results in combination with organization, by Charles G. Foster, with copies of memoranda of agreements made between boilers and iron manufacturers, Pittsburgh, February 13, 1865, and between the association of manufacturers of iron, steel, and nails and the National Amalgamated Association of Iron and Steel Workers, June 30, 1887.

History of the Knights of Labor organization in Pennsylvania (17 pages).—A textual sketch of the order, by John L. Butler, including a copy of the preamble and declaration of its principles.

The condition of wage-earners (28 pages).—A partly tabular and partly textual statement of the returns of wage-earners is here presented, giving in the text general remarks concerning labor organizations and other matters pertaining to their employment, and in the tables, for individuals, the occupation, residence, nativity, hours of labor, wages, length of time unemployed, time lost through sickness, the total earnings of the family, and itemized accounts of expenditures during the year, etc.

Reports of inspectors of mines (277 pages).—Separate reports of the 15 inspectors of coal mines give textual accounts of mine improvements, etc., and statistical tables present lists of all the collieries by name, location, and names of superintendents with their post office addresses, the production of coal and coke in each, the number of days worked, the number of employes, by occupations, the number of accidents, and the number of engines in use; lists of accidents, giving the name, occupation, and age of each person killed or injured, with the nature and cause of the accidents, and a tabular statement showing the yearly production of each company in the fourth anthracite district for each year, from 1881 to 1887, the number of lives lost, and the average amount of coal produced by each company per life lost.

SIXTEENTH ANNUAL REPORT, 1888.—[476 PAGES.]

The history and statistics of building and loan associations (124 pages).—This comprises a comprehensive textual and statistical consideration of building associations. The text, eighty pages in length, includes a history of building associations in England, in China, and in the state, accounts of building associations in other states, and a copy of the Pennsylvania law relating to such associations. A detailed description is given of the different kinds of organizations, their methods of operation, with specimens of constitutions, and balance sheets showing the condition of their financial affairs at the end of each month and at the end of each year, and a description of the different rules and methods of dividing gains. Tables give the number, assets, etc., of building associations in the state; and detailed statements of 337 building associations investigated show for each its character (serial or terminating), its age, number of shares, amount of expenditures, its assets, how invested, etc.

Miners' earnings (140 pages).—Statistical tables, based on returns from operators of seventy-one bituminous and forty-five anthracite collieries, give for each mine separately, for the year and also for each month, the earnings and the number of days employed of twenty selected miners, classified according to highest and lowest individual earnings; and the individual and average earnings and the number of days worked of all miners in two anthracite collieries, each month during the year ending August 31, 1888, with monthly summaries showing averages of all.

General wage statistics (107 pages).—Statistical tables compiled from employers' returns give separately for each industry, by establishments and occupations, the

daily wages of employes, and in most cases also the number of days each establishment was in operation.

Coke, iron ore, and coal production for 1888 (2 pages).—Under this topic tables present, by counties, the total production of coke, the total production of iron ore, by mines, and the number of days each mine was in operation; and, by counties, the total production of coal and the number of men employed.

Worsted yarn manufacturing in Pennsylvania (15 pages).—In accordance with a plan adopted by the bureau of devoting a part of each report to a detailed account of one or two leading industries of the state, a textual description is here given, with numerous full-page illustrations, of the worsted yarn industry as carried on by Erben, Search & Co., Philadelphia.

School of industrial art (11 pages).—A textual account, with numerous full-page illustrations, of a school for instruction in the application of art to the textile industries, established as a department of the Pennsylvania Museum and School of Industrial Art in Philadelphia.

Organizations of glassworkers (37 pages).—In pursuance of the plan adopted by the bureau of giving an account of the principal labor organizations of the state, a textual account of the organization of the glassworkers of the state is here given.

American and foreign labor organizations compared (26 pages).—A comparison of American and foreign labor organizations, based on a study of labor organizations made by the chief of the bureau during a European visit, includes short tables giving a list of cooperative societies in Pennsylvania, with the date of incorporation, place of business, and amount of capital stock of each company; a table showing the amounts expended on their various benefits by each of 26 of the principal trades unions in Great Britain during a stated number of years, and for 1887 separately; also the number of their members in December, 1887; and copies of a series of recommendations embraced in a recent report on trades unions by a committee appointed by the Belgian government to investigate this subject.

SEVENTEENTH ANNUAL REPORT, 1889.—[531 PAGES.]

Farming and farm values (263 pages).—This subject embraces a textual and statistical inquiry concerning the causes and extent of the depression in the farming industry of the state, of the condition of farmers, etc. The text, 205 pages in length, gives, by counties, replies from farmers to inquiries by means of circulars issued by the bureau concerning farm values, wages paid, etc. The tables give the number and acreage of farms in various counties, by townships, the prices of agricultural implements, each year, from 1870 to 1889; the prices of farm products in different localities of the state, each year, from 1876 to 1889; the rates of transportation on farm products from various points to Philadelphia, each year, from 1880 to 1890, etc.

Miners' earnings (66 pages).—Statistical tables giving, by collieries, the number of days in operation of anthracite coal mines in 1879, and each year, from 1885 to 1889, and of bituminous mines, each year, from 1881 to 1889; the yearly earnings and the number of days worked by each miner in eighteen anthracite and eight bituminous coal mines; and the average daily earnings of each miner, classified according to amounts earned.

Building and loan associations (76 pages).—Under this heading are given textual extracts from the reports of secretaries of building associations in various parts of the state, showing the benefits of their associations to the workman; and statistical tables giving for each of 538 associations, by name and location, its age, number of shares, receipts and expenditures, assets and liabilities, etc. Summaries give the averages for all the associations.

The carpet industry (52 pages).—This is a textual historical sketch of the growth of the carpet industry of the state, by J. R. Kendrick, including a description of the methods of manufacturing the various kinds of carpets, and contains full-page illustrations of the interior of various mills, and a number of short illustrative

tables. These tables give the number of carpet factories in Philadelphia, their product, etc., in 1834; the number of looms, number of operators, the product of the mills, etc., in Philadelphia in 1857; the number of carpet factories in the United States in 1860, by states; the number of establishments, the value of their product, etc., for the United States, for the years 1860, 1870, and 1880; a scale of wages agreed upon by the manufacturers and weavers in Philadelphia, November 15, 1881; the output of carpets, the number of hands employed, wages paid, material used, amount of product, etc., for 1870 and 1880, in the United States and in Pennsylvania; the number of carpet factories in the United States in 1880, by states, and the number in Philadelphia for the same year; the number of establishments, number of looms, and the yearly product of Philadelphia carpet factories in 1881; the number of establishments, number of employes, etc., in the United States, for the years 1850, 1860, 1870, and 1880; the present duties on imported carpets; the selling prices of carpets, each year, from 1862 to 1890; the average weekly wages of employes in an ingrain mill, from 1840 to 1890, by decades; the earnings of employes in a mixed mill in Philadelphia, for the years 1870, 1880, and 1890; an analysis of the cost of production in a mill of seventy-five power looms in 1888; a comparison of wages of hand and power loom weavers; the number of establishments in the United States using power, by states; the number of power looms for making various kinds of carpets in the United States, for the years 1886, 1888, 1889, and 1890; the estimated present output and value of products of carpet mills in the United States, by states and also by kinds of carpets, and the approximate output of Philadelphia.

Workmen's replies (66 pages).—Under this topic are given replies from workmen representing forty different occupations to questions concerning the employment of labor, especially with reference to the employment of child labor in factories or mills, with its effects and consequences, the regulation of hours of labor, legislation for the improvement and benefit of the working classes, the apprentice system, and regulations for the prosperity of both employes and employers.

EIGHTEENTH ANNUAL REPORT, 1890.—[346 PAGES.]

Changes in farm values (93 pages).—This is a textual and statistical consideration of various causes which have affected the value of farm lands in the state, and is a continuation of the investigation of the same subject conducted by the bureau the preceding year. The text discusses the advantages of the interchange of products, prices paid for transportation, the profits of packing houses, the farmer's cost of living, giving prices of articles, the settlement of western lands, the competition in wheat growing with Russia and India, local markets, and several modes of relief. Numerous tables, illustrative of the text, give the prices paid for agricultural implements, each year, from 1870 to 1890; the average prices of wheat and of other farm products at Philadelphia, the cost of transportation from various points thereto, and the percentage of selling price paid for transportation, each year, from 1880 to 1890; the tonnage, mileage, earnings, expenses, and averages on freight business on all railroads east of Pittsburgh and Erie operated by the Pennsylvania Railroad Company, each year, from 1864 to 1890; the profits of packing houses; the prices of various articles of commodities, each year, from 1880 to 1890, at country stores in Chester county and in central Pennsylvania; the retail prices of wheat, corn, and oats at West Chester, Pennsylvania, each year, from 1880 to 1890; the increase or decrease in population and production from 1860 to 1890; the exports from the United States of wheat and flour from 1861 to 1891; the imports of silver into India, by years, from 1874 to 1890, and the quantities, values, and average export values of wheat exported from India since May 1, 1862; a comparative statement of wheat exports from Russia, India, and the United States from 1852 to 1890; and the number and acreage of farms occupied by land owners and tenants in fourteen different counties of the state.

Statistics of strikes and lockouts (13 pages).—This part of the report treats of the strikes and lockouts which occurred in the state, each year, from 1887 to 1890. A general

table gives, by industries and years, the cause or object of each strike or lockout, whether ordered by a labor organization; the number of establishments affected and days closed; the number of persons engaged and involved; the dates of beginning and ending; the duration; whether or not it succeeded; and the losses both to employes and to employers.

Sugar refining in Pennsylvania (18 pages).—Under this heading are given a brief history of the sugar refining industry in the state, a description of the process of refining sugar as carried on at the Franklin sugar refinery in Philadelphia, and a full description, with numerous illustrations, of the buildings in which the work of refining is conducted.

Railroad relief associations (72 pages).—This chapter is devoted to a consideration of the aims, objects, and leading features of associations organized for the benefit and relief of railroad employes. It includes the rules and regulations governing the associations of the Pennsylvania, the Baltimore and Ohio, and the Philadelphia and Reading railroad companies, the plan of the relief fund of the Lehigh Valley Railroad Company, and the constitution of the Cumberland Valley Railroad Relief Association. Several tables, interspersed throughout the text, show for the Pennsylvania Railroad Association the number of deaths, disabilities, and payments from 1886 to 1890; for the Pennsylvania lines west of Pittsburgh, the membership, receipts, disbursements, and balances of the relief funds, December 31, 1890; for the Baltimore and Ohio railroad the per diem pension allowance to members of the relief association, and the benefits paid by the association from May 1, 1880, to September 30, 1890; and for the Philadelphia and Reading Railroad, the operation and financial condition of the association for the fiscal year ending November 30, 1890, and a statistical statement of the beneficial fund of the miners and laborers of the Philadelphia and Reading Coal and Iron Company.

Reports of the factory inspectors (138 pages).—Under the above heading are given copies of the correspondence between the factory inspectors, the attorney general, and the chief of the bureau, concerning the publication of the report of the factory inspector; a brief summary of the work done by the office from its organization to November 30, 1890, the act regulating the employment and providing for the safety of women and children in mercantile and manufacturing establishments, and providing for the appointment of inspectors to enforce the same; and complete reports of the deputy inspectors, comprising statistics of factories and accidents. The statistics of accidents give the name of each person injured, his age, residence, and name of employer, the date of his injury, cause and extent of accident, and the place to which he was sent. The statistics of factories give the name of each factory or workshop inspected, the goods manufactured, the number of persons employed (males, females, children under 12 and from 12 to 16 years of age), the sanitary condition, date of inspection, the orders given by the inspectors, and the extent to which the orders were complied with.

NINETEENTH ANNUAL REPORT, 1891.—[504 PAGES.]

The liability of employers to their employes (173 pages).—This is a textual consideration of the subject, and is divided into three parts. Part I reviews the attempts made by the legislature of the state to extend and define more clearly the duties of employers; the difficulty in legislating on the subject; the first legal controversy on the subject in England, giving also the reasoning on which the decision of the court was founded; the first case in the United States, with an abstract of the decision rendered by the supreme court of South Carolina; the first case that came before the highest court in Massachusetts; the first case in the supreme court of Pennsylvania; earlier decisions in lower courts; the cases in which the courts have held the employer not responsible to an employe for injuries sustained by the negligence of a fellow employe; the decisions relating to unsuitable servants; and the cases in which employers were held responsible. Part II reviews the legislation on the subject in

the states of Alabama, Georgia, Iowa, Kansas, Massachusetts, Minnesota, Mississippi, Montana, Rhode Island, Texas, Wisconsin, and Wyoming. Part III treats of the legislation in foreign states. Abstracts are given of the law of Great Britain; of Germany; of Switzerland; and of other European countries.

Commerce, navigation, and shipbuilding on the Delaware river (149 pages).—This is a historical and statistical account of the commerce, navigation, and shipbuilding on the Delaware river from the colonial period to the present time. There are tables showing for the year 1769 the value of the exports from Philadelphia to the West Indies, to the south of Europe, and to Great Britain and Ireland, and the value of the imports from the same countries; the quantities of certain exports from Philadelphia in certain years from 1729 to 1773; the value of exports from Pennsylvania to Great Britain and imports from Great Britain to Pennsylvania each year from 1697 to 1776; the number and tonnage of vessels leaving and arriving at the port of Philadelphia for certain years, from 1719 to 1775, and yearly from 1784 to 1891; the annual shipments of refined oil from Philadelphia, from 1861 to 1891; and the value of exports of domestic and foreign productions and of imports at the customs district of Philadelphia, by years, from 1791 to 1891. Other tables show the growth and magnitude of the coastwise commerce, and of steam navigation. These tables are followed by a description of the process of steel shipbuilding, with a number of full-page engravings illustrative of the text. The mode of making and executing government contracts is also given. The chapter closes with a table covering 38 pages, which gives the domestic and foreign exportations of commodities for various years from 1784 to 1890, inclusive.

Strikes and lockouts (24 pages).—Under this heading are given the strikes and lockouts that occurred in the state during the year 1891. A general table shows, by industries and localities, the cause or object of each strike or lockout, whether ordered by a labor organization, the number of days each establishment was closed, the number of persons engaged and involved, the dates of beginning and ending, the duration, whether or not it succeeded, and the losses to both employes and employers.

Report of the factory inspector (148 pages).—This chapter briefly summarizes the work done by the office from June 1 to November 30, 1891; contains the recommendations of the factory inspector as to amending certain sections of the factory act, and two statistical tables. The first of these tables, statistics of accidents, gives the name and age of each person injured, the name and location of the establishment in which the accident occurred, the date of accident, and the cause and extent of the injury. The second, statistics of factories, gives, by localities, the name of each factory or workshop inspected, the goods manufactured, the number of persons employed (males, females, children under 12 and from 12 to 16 years of age), the sanitary condition, date of inspection, the orders given by the inspector and the extent to which the orders were complied with.

RHODE ISLAND.

FIRST ANNUAL REPORT, 1887.—[107 PAGES.]

Introduction (14 pages).—This contains the text of the law (omitting portions relating to matters of detail) by which this bureau was established; also a general description of the industries of the state; and an account of the work of the bureau, with copies of the blanks used for gathering statistics.

Cotton mills (9 pages).—An account of the condition of the cotton manufacturing industry in Rhode Island during the past year is here given, with a consideration of the employment of children, followed by a table of statistics compiled from the returns made by manufacturers. This table shows, for each mill reported, the kind of goods made; the capital invested; the time in operation; the value of the raw

material used; the total yearly expenses; the average weekly wages of skilled and unskilled employes; the number of employes; the weekly wages and annual earnings of men, women, and children; the number of employes owning homes; the number of accidents; the number of strikes; the value of the product; the gross profit; and the average earnings per employe. A statement is also made, by occupations, of the wages paid operatives in one of the largest cotton mills of the state.

Woollen and worsted industries (5 pages).—The text includes an account of the condition of these industries in the state during 1887, and an extract from a special report issued by the chief of the Bureau of Statistics of the United States Treasury Department, showing the necessity of importing foreign wools. The statistics relating to woollen and worsted mills are presented in a table similar to that used for cotton mills.

Jewellery manufacturing; foundries and machine shops (7 pages).—Statistical tables, similar to those given in the two preceding chapters, are here presented, based on the returns received from jewellery establishments and from foundries and machine shops.

General statistics (3 pages).—Under this head brief tables are given showing the number of employes and the average wages in ten different trades and commercial pursuits in Rhode Island.

Employes' returns (9 pages).—Copies of the remarks upon subjects relating to trades unions, the apprentice system, labor laws, the condition of wageworkers and their families, etc., contained in the returns received from employes are here presented, without comment.

Statistics of employes (10 pages).—These statistics are presented in tables showing, for each of 27 employes in the cotton industry, 21 employes in the woollen industry, and 9 employes in the iron industry, the age, place of birth, nativity of parents, occupation, hours of work, earnings, days lost, with causes; earnings of others in family, cost of living, amount paid for rent, size of the family, number of children attending school, time of payment of wages, increase or reduction in wages during past year; savings, if any, and the number of families residing in the same house.

Strikes (10 pages).—This chapter contains brief accounts of the strikes which occurred in Rhode Island during the past year, followed by tables taken from advance sheets of the Third Annual Report of the United States Bureau of Labor. These tables show, by industries, for each year, from 1881 to 1886, the locality of each strike in the state, its cause or object, the number of establishments involved, the duration, whether successful or not, the losses to employes and to employers, the number of employes and their average daily wages and weekly working hours before and after the strike, and the number of new employes after the strike. Recapitulations for all industries for all years are also given.

Weekly payments (4 pages).—Under this head are presented the views and opinions of the president of the Central Labor Union, and of various representatives of the cotton and woollen manufacturing interests of the state, regarding the weekly payment of wages.

Free textbooks (17 pages).—This is a consideration of the subject of supplying the public school children of the state with free textbooks. It includes tables showing for each of the New England states the population in 1880, and the percentages of illiterates and of foreign born illiterates; also the illiteracy and school attendance in each of the cities and towns of Rhode Island in the census year 1885; and a comparative table for the state of the illiteracy percentages for 1875 and 1885, by parent nativity. The opinions of the state commissioner of public schools, and of superintendents of schools in various cities of the state, concerning the subject, are presented; also a table of statistics of the Woonsocket School under the free textbook system, showing the expense for books, the average attendance, and the cost per pupil, each year from 1878 to 1887. In conclusion, lists are given of the names of the different textbooks in use in Rhode Island in 1886, and the number of towns by which each book has been adopted.

Appendix: Laws relating to labor and school attendance (13 pages).—The text of the public laws of Rhode Island relating to labor and compulsory school attendance is here presented. Laws quoted relate to the employment of apprentices and minors; provide for exemption from execution and attachment; prohibit intimidation of employes; make ten hours a legal day's work; regulate the hours of labor of women and children; relate to payment of wages under special contracts; provide for the education of children; relate to preferred creditors in cases of assignments; secure wages in cases of insolvency; and establish the bureau of industrial statistics.

SECOND ANNUAL REPORT, 1888.—[224 PAGES.]

Introduction (3 pages).—

Employes' returns (53 pages).—The information concerning their general condition furnished by 600 employes in various parts of the state is here presented in tables showing for each employe, by occupation, his age and place of birth, the nativity of his parents, his earnings, the time lost during the year, with the causes, the cost of living, his home owned or rented, and price paid for rent, the size of his family, how often paid, his savings or debts, etc. A recapitulation, by occupations, is also given, followed by an analysis of the preceding statistics and a table of averages.

Employes' remarks (31 pages).—Under this head are given in full the remarks of employes accompanying their returns. These remarks exhibit the views and opinions of wage-earners throughout Rhode Island upon various subjects relating to the labor question.

Labor organizations (12 pages).—This chapter contains descriptions of the various labor organizations in Rhode Island, most of them being furnished by members of the respective organizations.

Strikes (7 pages).—Accounts are here given of the principal strikes which occurred in the state during 1888.

Employers' returns (15 pages).—Returns were received during the year from employers in nearly every important industry of the state except agriculture. Textual accounts of the general condition of the industries represented are given, followed by statistical tables based on the returns, showing, by industries and by subdivisions of trade, the number of returns received, the capital invested, the average time in operation during the year ending June 30, 1888; the value of raw material used, the number of employes, the wages paid, the number of accidents, the value of the products, and the average annual earnings, by roads, for steam and horse railroads, the capital stock, the number of employes, and the total wages paid; also the general condition of the menhaden fisheries, of coal mines, and of the oleomargarine industry.

One table compiled from the returns and from information obtained from different sections of the state gives the average rates of wages per week for all the occupations covered by this report; and in conclusion a statement is given of the average weekly and yearly wages of children in twelve industries of the state.

Child labor and school attendance (9 pages).—This is a textual and statistical consideration of the employment of children and their attendance at school. Two tables are presented, the first, compiled from the census returns of 1885, showing, by classes, the occupations of children, parent nativity, and age periods; and the second, based on an investigation made by the bureau, giving, by cities and towns, the statistics of school attendance and truancy.

Moral condition of factory help (12 pages).—This is a textual consideration of the moral condition of factory help, consisting for the most part of copies of letters written in 1837 concerning the moral condition of Rhode Island factory towns at that time.

Conclusion (2 pages).—In conclusion the commissioner offers suggestions to the general assembly of the state relative to factory inspection, the weekly payment of wages, and the justice of making laborers preferred creditors.

Appendix (71 pages).—This consists of four parts. The first contains copies of the employers' and employes' blanks used by the bureau in gathering statistical infor-

mation; the second presents transcripts of various papers read by Edward Atkinson, James H. Smart, J.L.D., T. V. Powderly, and Prof. Arthur Woodford at the convention of chiefs of bureaus of labor, held at Indianapolis in 1888; a list of the bureaus represented by the convention is also given; the third contains copies of the laws of Massachusetts and Connecticut regulating payment of wages under special contracts; prohibiting intimidation of employes; relating to liability of employers for injuries to employes; regulating hours of labor of women and children; prohibiting the employment of children in cleaning dangerous machinery; requiring seats for female employes; relating to the employment of children in mercantile establishments; to minors unable to read and write the English language; providing for proper meal times for women and children; for the health and safety of employes in factories; prohibiting the locking of doors during hours of labor; requiring means of communication between engineers' and machinery rooms, and accidents in factories to be reported; limiting the age of children in factories, etc.; providing for proper ventilation of public buildings; requiring fire escapes for factories, etc.; providing for inspection of buildings alleged to be unsafe; for safeguards against fire in hotels; and the fourth contains copies of the acts of the general assembly of Rhode Island relating to the employment of apprentices; to the care of poor adults; limiting the age of children employed in factories; providing for exemption from execution and attachment; prohibiting intimidation of employes; regulating the hours of labor of women and children; providing for payment of wages under special contracts; relating to payment of forfeiture to employes discharged without notice; securing wages in cases of insolvency; defining the duties of the commissioner of industrial statistics; relating to mechanics' liens; and providing for the education of children.

THIRD ANNUAL REPORT, 1889.—[240 PAGES.]

Introduction (23 pages).—This includes a copy of the address of Carroll D. Wright, Commissioner of the United States Department of Labor, before the American Social Science Association, in 1888, on the Growth and purposes of bureaus of labor; a general consideration of the results of the investigations of the bureau; an analysis of the tables embraced in this report; and some recommendations made by the commissioner to the general assembly.

Workingwomen's returns (122 pages).—This part of the report contains, in tabular form, the statistical information obtained, for the most part through personal interviews, from over 1,400 workingwomen in the state. Seven tables are presented. Table I gives for each employe, her occupation, place of birth, the nativity of her parents, her conjugal condition, hours of work, hours of meal time, earnings and times of payment of wages in various industries, and general statistics concerning her home, and place and manner of working. Tables II and III give a recapitulation, by classes of occupations, and a summary of the preceding table. Table IV shows the total number reported in each occupation and the actual wages each received; also the highest and lowest wages received and prices paid for board in each occupation. Table V shows the number of employes considered, classified by groups, according to the weekly wages received. Table VI shows the average annual and weekly wages for each occupation and also for the whole number of employes reported. And table VII shows, by cities and towns, the number of female teachers in each, their average wages, and the average length of time their schools are in session.

Workingwomen's remarks (9 pages).—The remarks of a number of workingwomen concerning child labor, labor laws, etc., and in regard to the disadvantages and inequalities under which women labor, are here presented in the language of the women themselves.

Statistics relative to women (13 pages).—These statistics are presented in two tables, the first of which, taken from the Rhode Island state census of 1885, shows the number of males and of females, with the percentage of each, employed in each

occupation to which women are admitted. The second table gives the number of commitments of males and of females to the penal institutions of the state, during each year from 1879 to 1888, with totals and percentages.

Strikes (1 page).—Under this head is given a brief account of each of the ten strikes which occurred in the state during 1889.

School attendance and absentees (2 pages).—This consists of two tables which present, by cities and towns, statistics concerning school attendance and absentees in Rhode Island, the first relating to children 10 and under 15 years of age, and the second to children 7 and under 10 years of age.

Associations for the benefit of workingwomen (7 pages).—This is a textual description of the different associations for the benefit of workingwomen in Rhode Island.

Appendix (40 pages).—This contains a report of the national convention of the chiefs of bureaus of statistics of labor, held at Hartford, Connecticut, in 1889, including reports from each bureau as to the lines of work in which they were engaged; and also copies of the acts of the Rhode Island general assembly relating to the employment of apprentices; limiting the age of children employed in factories; regulating the hours of labor of children employed in factories; providing for exemption from execution and attachment; prohibiting intimidation of employes; securing wages in cases of insolvency; regulating the hours of labor of women and children; the payment of wages under special contracts; relating to payment of forfeitures to employes discharged without notice; providing for the education of children; relating to mechanics' liens; requiring fire escapes for factories; and defining the duties of the commissioner of industrial statistics.

FOURTH ANNUAL REPORT, 1890.—[336 PAGES.]

Introduction (7 pages).—The introductory remarks present an outline of the work done by the bureau, and arguments in favor of the investigation conducted.

Citizenship (319 pages).—The information under this heading is given in five statistical tables. Table I exhibits, for each city and town in the state, the occupations, by age periods, of 91,535 men, twenty years of age and upwards, with a recapitulation by cities and towns. Table II is an exhibit of the occupations, by place of birth and nativity of parents, with a recapitulation by cities and towns. Table III shows the political condition of the foreign born citizens of the state, and the occupations in which they are engaged, with a recapitulation by cities and towns. Table IV is a summary of occupations and totals for each town and city in the state. Table V contains the total enrollment, the number of qualified voters, both registry and property, the vote for governor in 1890, the percentage of the number qualified to the number enrolled, and also the percentage of the number voting to the number qualified, by towns, cities, and counties.

FIFTH ANNUAL REPORT, 1891.—[205 PAGES.]

Introduction (10 pages).—The introductory remarks discuss briefly the subject of child labor and present a review of the investigation conducted by the bureau during the year.

Child labor (188 pages).—This topic forms the subject of the investigation of the bureau for the year 1891. It embraces the laws of the several states relating to the employment and compulsory education of children; the opinions and remarks of superintendents, members of committees, principals and teachers of schools, clergymen, and physicians relative to child labor, the influence of such labor upon the employment and earnings of adults, and the effect of employment upon the health, morals, and education of children; the law regulating the hours of labor of women and children employed in factories and shops; and a series of statistical tables relative to the subject of the investigation. Table I gives the age, occupation, place of birth, and parent nativity of every child, both male and female, employed in every

town and city in the state. Table II is a table of totals, giving the number of children employed and their various ages, their places of birth, and parent nativity by towns, cities, counties, and for the state. Table III shows the total number of children employed, by occupations. Table IV shows the wages of children, highest, lowest, and average, paid per week, and the number of weeks the establishments in which children were employed were in operation during the year. Table V gives the average wages paid per week, by classified industries. Table VI shows the school attendance and absentees for the year 1890 of children between the ages of 10 to 14 years, inclusive, and table VII gives the same information in regard to children between the ages of 7 to 9 years, inclusive.

UNITED STATES.

FIRST ANNUAL REPORT, 1886 [1885]. (INDUSTRIAL DEPRESSIONS.)—[496 PAGES].

Industrial depressions (477 pages).—The report as a whole is a comprehensive historical, textual, and statistical consideration of industrial depressions, both in the United States and in foreign countries. The depression during the period of 1882 to 1886 in the United States is treated in detail, the various causes alleged and remedies proposed being considered at length. Former depressions in this country and in foreign countries are treated more briefly. The report also contains appendixes showing occupations and wages of employes in establishments investigated by the Bureau, earnings and expenses of wage-receivers in Europe, and a synopsis of labor legislation in the United States.

Introduction (3 pages).—A general consideration of the purposes of the investigation.

Modern industrial depressions, 1837 to 1886 (50 pages).

Great Britain, 1837 to 1886 (19 pages).—This includes a textual consideration and illustrative tables of the industrial depressions occurring in Great Britain in the years 1837, 1847, 1857, 1866, 1873, and 1881. The text treats of the causes, extent, and results of each depression and contains frequent mention of prices, amount of production of commodities, etc., which are not embraced in the tables. The tables give for the United Kingdom the number of miles of railroad opened each year, from 1813 to 1852; and the number of miles of railroad in England and Wales, Scotland, and Ireland in 1881; the number of depositors and amount of deposits in savings banks under trustees, each year, from 1816 to 1881; and in post office savings banks, from 1862 to 1881; the average price of wheat, each year, from 1816 to 1850, and from 1870 to 1881; of Scotch pig iron, from 1866 to 1872; of cotton yarns, each month, from 1867 to 1885, at Manchester, England; the number of joint stock companies registered in the United Kingdom and their total nominal share capital, from 1866 to 1881; and the wheat acreage of Great Britain, each year, from 1870 to 1881.

France, 1837 to 1886 (9 pages).—A similar consideration of industrial depressions in France. Tables give the number of miles of railroad in operation, each year, from 1840 to 1881, in France; the number of depositors and amount of deposits in savings banks, each year, from 1835 to 1883; the yearly production of coal, pig iron, merchant iron, and steel, and the average yearly consumption of coal in France, from 1829 to 1883; and the production and average market price of pig iron, merchant iron, and steel in France, each year, from 1874 to 1883.

Belgium, 1837 to 1886 (5 pages).—A similar consideration of industrial depressions in Belgium. Tables give the production and value of iron ore, pig iron, merchant iron, and steel in Belgium, for various years between 1840 and 1883; and the production, value, and price of coal in Belgium, each year, from 1831 to 1883, with the number of employes engaged in coal mining, their average yearly wages, and the average quantity produced per employe.

Germany, 1837 to 1886 (6 pages).—A similar consideration of industrial depressions in Germany. Tables give the production and value of pig iron in Germany, each year, from 1863 to 1882, and of coal for 1843, 1853, 1857, and for each year, from 1862 to 1882; the number of savings banks, number of depositors, and amount of deposits in such banks in Prussia, each year, from 1839 to 1881; the amount of new deposits made and deposits withdrawn from savings banks in Saxony, for certain years between 1845 and 1880, and the number and per cent. of depositors, arranged according to amount of deposit; and the number of miles of railroad in operation, each year, in Germany, from 1835 to 1881, and in Prussia, from 1838 to 1881.

The United States, 1837 to 1886 (10 pages).—This consists wholly of a textual consideration of industrial depressions in the United States, from 1837 to 1881. It includes a list of the causes of depressions, as elicited by committees of Congress.

The industrial depression in the United States, 1882 to 1886 (189 pages).—This heading comprises a detailed textual and statistical consideration of the industrial depression of 1882 to 1886 in the United States. The tables are almost entirely based on data collected by the Bureau for this investigation. The text treats of the extent and causes of the depression. A list of the alleged causes of depression as gathered by the agents of the Bureau is first given. The principal causes alleged, falling prices, machinery, and over-production, the variation in the cost of production, variation in the rates of wages, speculative railroad building, crippled consuming power or under-consumption, and tariff inequalities are considered seriatim. The tables give the production each year in the United States of Bessemer steel ingots and steel and iron rails, from 1874 to 1885; of pig iron according to fuel used, from 1870 to 1885; of bituminous coal, from 1882 to 1885, by states; of anthracite coal, from 1882 to 1885; and of boots and shoes in Massachusetts, from 1859 to 1885; the number of failures and amount of liabilities in the United States, each year, from 1857 to 1885; the number of miles of railroad in operation, each year, from 1830 to 1885; the average monthly prices of pig iron at Philadelphia, Pennsylvania, each year, from 1870 to 1885; the value of imports and exports of merchandise of the United States, by years, from 1835 to 1885; the value of imports and exports of the United Kingdom, France, and the United States, each year, from 1860 to 1884; the average price (in currency) of cotton and cotton goods at New York, by years, from 1847 to 1881; the export prices (in currency) of domestic products, each year, from 1855 to 1885; the number of depositors, amount of deposits, and the average amount to each depositor in savings banks in the United States, by years, from 1873 to 1885; and the displacement of muscular labor by machinery in the manufacture of agricultural implements in an establishment in one of the western states.

Under the head Cost of production, tables compiled from data collected from 570 establishments give, in 40 pages, analyses of the cost of production of a large number of carefully described units of production by states and separate establishments. Other tables give an analysis of the cost of spinning a pound of cotton yarn, of specified numbers, in Alsace and in England; the cost of production of coal, the number of employes, total amount paid in wages and yearly and daily average per employe, total production and yearly and daily average per employe, and the labor cost per ton in France, each year, from 1853 to 1883; the production of coal, number of employes, their wages, the labor cost per ton and price per ton, for the eight principal producing districts in France in 1883; the same for five coal mines in France in 1883; the production in 1883 in the department of Pas-de-Calais, and the number of employes (men, women, and children), by specified mines; the labor cost of producing iron ore in France in 1883, by departments; the production, number, and wages of employes, and the labor cost of production of iron ore in France, each year, from 1853 to 1883; the number of employes, days worked, wages paid, amount of production and the average price of illuminating gas, coke, and tar in certain departments of France; the production per employe and his daily earnings in the production of rolled iron in Westphalia, Germany, for the years 1869, 1873, and 1878, by

districts and occupations; five analyses of the cost of production of bar iron in Westphalia in 1878; and the share of labor and capital in mining coal in the province of Hainault, Belgium, each year, from 1860 to 1883.

Under the head Variation in the rates of wages, are given, in 84 pages, the following summaries, based on the table of occupations and wages contained in the appendix: A summary for the establishments investigated, showing, by states and countries, in a variety of industries, the number and average daily rates of wages of adult male and adult female employes, respectively, in certain selected occupations; a similar summary covering the number and average daily rates of wages of children and youths; a summary showing by states and countries and by occupations, in each industry, the total number of employes classified as adult males, adult females, and children and youths; a summary showing, by industries and states, the number and daily wages of adult males, adult females, and children and youths, respectively, together with the number and the average daily and yearly running time of the establishments; and a summary similar to the preceding, showing the same facts for the United States as a whole, and for each foreign country as a whole. Other tables give the labor cost per 1,000 hanks of spinning various numbers of twist, weft, and reeled yarn or bastard twist, in the Bolton district, England; spinners' and piecers' weekly wages at Oldham, England, in 1885, based on 3 draws in 50 seconds, 63-inch draw, for any number of spindles per mule, from 432 to 1392; the revolutions per spindle per inch of yarn on self-acting mules at Bolton; the wages paid per hour in iron moulding in Great Britain in 1885, by localities; the wages per hour, by occupations, in the manufacture of machinery, Birmingham, England, in 1885; ordinary, maximum, and minimum wages in selected occupations in Paris, and in principal cities of France not including Paris, for the years 1844, 1853, 1860, 1871, 1875, 1881, and 1882; and the number of employes and their average fortnightly wages, by occupations, in spinning and carding cotton, and in weaving cotton goods, in the Rhine district of Germany, each year, from 1855 to 1885.

Under Crippled consuming power, tables give the total and the foreign born population 10 years of age and over, in the United States, engaged in agriculture and in manufacturing, etc., for 1870 and 1880; the number of immigrants into the United States, each year, from 1820 to 1885; the imports of wheat into Great Britain and Ireland from the United States and from India, each year, from 1880 to 1884; the value of all products of agriculture, of manufacture, of mining, etc., and of specie, exported from the United States, for 1860 and 1870, and for each year, from 1875 to 1885; the value of leading agricultural products exported from the United States, from 1860 to 1885, by years and classes of articles; and the value of wheat exported, each year, from 1878 to 1885.

Under Tariff inequalities, a table relating to woollen and mixed goods manufactured at Leeds, England, or having Leeds as the point from which distribution begins, states the description of the goods, width in inches, weight per yard, price at factory, rate and amount of duty per pound and ad valorem, and the total duty levied under the compound rate, with the per cent. which such duty is of the price per yard at the factory.

The manufacturing nations considered as a group in relation to the present depression (10 pages).—A textual sketch of the recent industrial development of manufacturing nations, and their present economic condition.

Suggested remedies for depressions (26 pages).—A textual consideration of the remedies suggested for industrial depressions. Lists of suggested remedies as elicited by committees of Congress and as gathered by agents of the Department are first given. The principal remedies suggested, viz: the restriction of land grants to corporations, the restriction of immigration, the enactment of laws to stop speculation, the establishment of boards of arbitration to settle industrial difficulties, the contraction of credit, a sound currency, commercial and mercantile conditions, the distribution of products, profit-sharing, and the organization of workingmen and employers, are then considered seriatim.

Summary (4 pages).—A textual consideration of the results of the investigation, with a short table showing the years in which depressions occurred in each country in such a way as to indicate the contemporaneousness of depressions in all the countries.

Appendix: Occupations and wages (116 pages).—Under this heading are given statistical tables for each establishment separately, showing, by industries and occupations, the number of male and female employes, respectively, their daily wages and the length of working day, with the number of days in operation during the past year.

Appendix: Earnings and expenses of wage-receivers in Europe (46 pages).—Under this title are presented the separate statements of budgets of family income and expenditure of 82 workmen in various industries, living in Italy, Belgium, England, Germany, and Switzerland. Each gives the occupation, general condition of life, and work; earnings of the husband, the wife, and the children; diet and the cost of living, by detailed articles of expenditure. Accompanying tables give the prices of commodities, the average daily working time and rates of wages in 1885, and taxes and tariff rates on certain articles in Italy; and prices in Halifax, England, and general statistics showing the comparative state of affairs in England in 1860 and in 1885.

Synopsis of labor legislation in the United States (29 pages).—A synoptical compilation of laws of the various states and territories relating to labor.

SECOND ANNUAL REPORT, 1886. (CONVICT LABOR.)—[618 PAGES.]

Introduction (4 pages).—A general statement which indicates the nature of the investigation and the methods pursued in collecting the data presented, and defines the several general systems under which convict labor is carried on in the various penal institutions.

General tables (277 pages).—These tables are compiled from data specially collected for this investigation, and cover all penal institutions, of all grades, in all the states and territories in which the inmates are in any degree employed in productive labor. The tables are sixteen in number, and show the following statistical facts: Table I gives, by states and territories, the name and location of each penal institution employing convict labor productively, the system of work pursued, the industries followed, the number of contractors or lessees, the aggregate number of male convicts and female convicts, respectively, the number of each class employed in each industry, and the respective numbers of each class engaged in prison duties, and idle or sick; table II shows the same facts by classes of institutions, which, for the purpose, are grouped into institutions of severe penalties, institutions of moderate penalties, and institutions mainly reformatory; table III classifies the facts given in table I by systems of work, viz: public account, contract, piece price, and lease; table IV shows, by classes of industries, the number of male and female convicts, separately, employed in productive labor in each class of penal institutions, in each state and territory, and the system of work under which the labor is performed; the next four tables show the quantity and value or approximate value of the goods made or work done by convicts in each industry pursued in each institution, with the number of male and female convicts, respectively, employed, and the number of free laborers necessary to perform the same work, the data being presented in table V by states, in table VI by classes of institutions, in table VII by systems of work, and in table VIII by classes of industries; table IX institutes a comparison between the number of employes and value of product in certain selected prison industries in 1886, and the same free industries in 1880; tables X and XI present the average daily price for male and female convict labor and free labor, respectively, in the same vicinity, table X being arranged by states and separate industries, and table XI by classes of industries; table XII gives the itemized income and expenses of each penal institution, and the income of convicts from overtime work, with state

totals; table XIII shows the same facts by classes of institutions, and table XIV, by systems of work; table XV presents the average age and average length of sentence of male and female convicts, respectively, and of all convicts, in each institution, by states; table XVI groups the same facts by classes of institutions. Most of these tables are fully supplied with summaries and recapitulations in various forms.

Analysis of tables (20 pages).—Each of the foregoing general tables is briefly analyzed and explained. Tables show the number of prisoners of the United States sentenced to penal institutions of the several states and territories; the total and per capita cost of maintenance of convicts for one year in institutions of severe penalties, the facts being shown by systems of work for each institution in each state, with a recapitulation, by systems of work; and the effect of convict labor in competition with free labor, the table covering the views of representative men in various walks of life, in relation to the effects of convict labor in reducing the wages of free labor, the sales of goods, the products of work done, and in relation to its effects upon the convict morally and physically.

State investigations (64 pages).—Under this head are presented the conclusions of the principal reports on the subject of convict labor made under state authority or to state legislatures. The reports from which extracts are given are as follows: January, 1867, report of E. C. Wines and Theodore W. Dwight, commissioners of the Prison Association of New York to the legislature of that state; January, 1871, report of the state commissioners on prison labor, M. S. Myers, E. C. Wines, and Thomas Fencer, to the legislature of New York; April, 1879, and March, 1880, reports of Louis D. Pillsbury, superintendent of state prisons of New York; January, 1884, first annual report of the bureau of labor statistics of New York; February 8, 1887, report of the prison labor reform commission to the legislature of New York, embracing the act proposed by said commission to regulate the employment of prisoners in the penal institutions of the state; 1877, report of special committee to the legislature of Ohio; January, 1878, report of joint special committee to the legislature of Pennsylvania; January, 1879, report of the bureau of statistics of labor of Massachusetts; January, 1880, supplemental report of the same bureau; October, 1879, report of joint conference of committees from the states of Massachusetts, New York, New Jersey, and Connecticut; 1879, report of commission appointed under a resolution of the legislature of New Jersey; January, 1880, report of commission appointed under authority of a resolution of the legislature of Connecticut; February, 1884, report of the commissioner of labor of Michigan on penal institutions; January, 1887, report of the commissioner of labor of Michigan; September, 1884, first biennial report of the bureau of labor statistics of California; August, 1885, first biennial report of the bureau of labor statistics of Iowa; September, 1886, second biennial report of the bureau of labor and industrial statistics of Wisconsin; fourth biennial report of the bureau of labor statistics of Illinois.

Advantages and disadvantages of various systems and plans (28 pages).—This is a textual discussion, illustrated by short statistical tables, of the advantages and disadvantages of existing and proposed systems or plans of employment of convicts. First in order is considered the contract system, illustrated by the following tables: A table showing for each year, from 1875 to 1885, the number of pork barrels, lard tierces, lard kegs, and beef tierces, respectively, made for one firm by convict labor and sold in Chicago; a similar table for fifteen private shops in Chicago; a table comparing these two with each other and with the estimated total output of all private shops in Chicago; two tables showing the average annual earnings of coopers in each of nine establishments in Chicago for each year, from 1875 to 1885; similar tables for beer-barrel coopers in three establishments in Chicago; a table giving the price per piece paid for making pork barrels or lard tierces and the average weekly earnings of coopers in the cities of Chicago, Milwaukee, Saint Louis, Kansas City, Indianapolis, Louisville, Denver, Buffalo, Rochester, and Baltimore; and a table showing the market prices in Chicago for each year, from 1875 to 1885, of pork barrels, lard tierces,

lard kegs, and beef tierces, respectively. Other systems, plans, and suggestions for treatment of the question are considered in the following order: The piece price system; the public account system; the lease system; the entire abolition of convict labor; the establishment of a penal colony by the federal government; the employment of prisoners upon public works and ways; the employment of convicts in manufacturing goods for the government; the exportation of the products of convict labor; the prohibition of the sale of convict-made goods outside of the state in which manufactured; convict-made goods to be stamped "prison-made;" the payment of wages to convicts; the reduction of hours of labor in prisons; diversified industries; the substitution of industries not now carried on in this country; the utilization of convicts upon farms; and hand labor under the public account system. This last plan is very fully treated and is favored above any other suggested.

Historical notes (108 pages).—Under this head is embraced a compilation of information, mainly textual, relative to the economic employment of criminals in different countries and at different periods in the history of the world. As indicated above the information is historical, and constant reference is made to authorities. The countries treated of are as follows: The early nations (under which head are grouped Chaldaea, Assyria, Persia, Phœnicia, Egypt, the Jews, Greece, Rome, and China); Italy, Spain, France, Holland, Belgium, Germany (and separately Prussia, Baden, and Wurtemberg); Russia, Great Britain, Mexico, Guatemala, Colombia, Peru, Argentine Republic, Brazil, and the United States. Tables show, by industries, the daily average number of male and female convicts, separately, engaged in productive labor in Prussia for the year 1883-'84; the aggregate number of free laborers in certain specified industries in Prussia in 1875, the number of convicts engaged in similar industries for 1875-'76, and the ratio of free laborers to convicts in each industry; the distribution of prison labor in Wurtemberg, showing, by industries, how many prisoners work at prison duties, etc., how many for the state, and how many for customers; the average daily number of convicts in several British prisons and computed average daily value of the labor of each, by classes of occupations; and the computed value of the labor of British convicts for the year ending March 31, 1886, by prisons and classes of occupations.

Convict labor laws in the United States (98 pages).—Under this head is given the text of laws or parts of laws of all the states and territories, and of the United States, relating to the subject of convict labor, with full citations of the statutes whence compiled.

THIRD ANNUAL REPORT, 1887. (STRIKES AND LOCKOUTS.)—[1172 PAGES.]

Analysis of tables (27 pages).—The above heading embraces a textual discussion of the scope of the report, the methods employed in collecting the data, and the tabulated results as presented in the general statistical tables and summaries. Illustrative tables are introduced covering the following points: Number of strikes, number of establishments involved, average number of establishments to a strike, and number of employes striking and involved, for each year, from 1881 to 1886, being the years covered by the main investigation; classification, by sex, of the employes involved in strikes and lockouts, respectively, each year; comparison between total number of establishments in the United States involved in strikes and lockouts, separately, and the aggregate number so involved in the states of New York, Pennsylvania, Massachusetts, Ohio, and Illinois, each year; per cent. of strikes and lockouts, separately, ordered by organizations each year; per cent. of establishments closed by reason of strikes or lockouts each year; the results, in percentage, as to success, partial success, or failure, for establishments having strikes and those having lockouts, each year; the results for employes involved in strikes, each year; the leading causes or objects of strikes, with the number and per cent. of establishments in which each operated to produce strikes; days required for employes to recover wage losses in each wholly successful strike for increase of wages; also in each partially suc-

cessful strike for increase of wages; and a mathematical table showing the number of days required at certain given percentages of increase to recover the wage loss incurred through a strike of any given duration.

General tables of strikes and lockouts (645 pages).—These tables are only two in number, but they are very long and cover a great many details. Table I contains data concerning strikes of employes, and table II similar data concerning lockouts by employers, occurring during the years 1881 to 1886. The facts for each strike are shown separately, and the strikes are grouped under the states, by years, and under the years, by industries. The data give the locality, cause or object, duration, with dates of beginning and end, and result of the strike, whether ordered by an organization, number of establishments involved, number of days establishments were closed, loss occasioned to and assistance received by employes, loss to employers, number and average daily wages of male and female employes, separately, before strike and after strike, number of employes striking and their daily pay before strike and after strike, total number of male and female employes, separately, striking and involved, number of new employes after strike, number of such brought from other places, and average weekly working hours before and after strike, respectively.

Summaries of strikes and lockouts (345 pages).—Under this heading are embraced 21 elaborate summaries and recapitulations of the data given in detail in tables I and II. Tables III and X are summaries of strikes and lockouts, respectively, condensing the facts, except as to causes, shown in the general tables, and presenting them for states by years; tables IV and XI show the same facts for years by states; tables V and XII, for states by industries; tables VI and XIII, for industries by states; tables VII and XIV, for the United States by years; tables VIII and XV, for the United States by states; tables IX and XVI, for the United States by industries; table XVII is a summary of the causes and results of strikes for states by years; and table XVIII, a similar summary for states by industries; table XIX is a summary of causes for the United States by years; table XX, a similar summary by industries; table XXI, a recapitulation of causes and results for the United States; table XXII, a summary of causes, etc., of lockouts for the United States by years; and table XXIII, a recapitulation of causes, etc., of lockouts for the United States.

Strikes and lockouts occurring in the United States prior to 1881 (82 pages).—This embraces such accounts of former strikes and lockouts in the United States as could be gleaned from state and United States reports and from a mass of private publications. The information thus collected is arranged chronologically, and embraces references in all cases to the sources whence derived, and concludes with a statistical table presenting the information in a summarized form, by years, causes, and results.

Decisions of courts and legislation concerning strikes, combinations, conspiracies, boycotts, etc. (56 pages).—Under the above heading are first given extracts from reports and decisions, with authorities cited, showing the gradual modification in the United States of the common law doctrine of conspiracy. Following this are extracts from the statutes of such states and territories as have enacted laws concerning strikes, combinations, boycotts, etc.

FOURTH ANNUAL REPORT, 1888. (WORKINGWOMEN IN LARGE CITIES.)— [631 PAGES.]

Introduction (2 pages).—A textual statement of the object, methods, and extent of the investigation is herein presented, and shows that the statistics given in the tables cover returns from 17,427 workingwomen, engaged in 313 distinct industries, in the cities of Atlanta, Georgia; Baltimore, Maryland; Boston, Massachusetts; Brooklyn, New York; Buffalo, New York; Charleston, South Carolina; Chicago, Illinois; Cincinnati, Ohio; Cleveland, Ohio; Indianapolis, Indiana; Louisville, Kentucky; Newark, New Jersey; New Orleans, Louisiana; New York, New York; Philadelphia, Pennsylvania; Providence, Rhode Island; Richmond, Virginia; San

Francisco, California; San José, California; Saint Louis, Missouri; Saint Paul, Minnesota; and Savannah, Georgia.

General conditions (17 pages).—Under this title is embraced a textual account of the impressions gained by the special agents who collected the information as to the general conditions surrounding the employment of women in the several cities visited by them.

Boarding homes, aids for workingwomen, etc. (29 pages).—A textual statement which treats of the various institutions existing in the cities comprehended in the investigation, which have for their object the protection and assistance of workingwomen.

Topical analysis of tables (19 pages).—Presents a textual account of the principal facts disclosed by the general tables and summaries compiled from the data collected, and concludes with a discussion as to the character of workingwomen, in which statistics covering the previous occupations of 3,866 prostitutes show that the ranks of prostitution are not largely recruited from the class of girls considered in the main report. The discussion is illustrated by short tables showing the average weekly earnings of workingwomen in each of the 22 cities investigated, the facts as to previous occupations of the prostitutes interviewed, and as to previous marriage of such prostitutes.

General tables and summaries (547 pages).—This topic embraces 32 statistical tables, presenting in detail and in summarized form the information collected. Table I shows the present age of the women for each city, by industries and by separate ages, with totals and averages; table II is a summary of table I by cities, table III is a detail table, table IV a summary by industries, and table V, a summary by cities, giving the age of the women at the time of beginning work; table VI is a detail table by cities and industries, and table VII a summary by cities, of the years engaged in present occupation; table VIII presents in detail for cities and industries, and table IX in summarized form for cities, the state or country of birth; table X is a detail table by cities and industries, and table XI a summary by cities of the state or country of birth of the fathers and mothers, respectively; table XII shows in detail and table XIII in a summary, by cities, the conjugal condition and number of previous occupations of the girls; table XIV is a detail table, and table XV a summary, of the conditions of residence, showing whether the girls live in boardinghouses, in lodgings, in private families, or at home, and, if the latter, whether they assist in the housework, give their earnings, pay their board, or receive their board; table XVI shows in detail by industries for cities, and table XVII by totals for cities, the number of families represented, the number of persons in such families, the number who are workers, and the number of families wherein some member owns a house; table XVIII is a detail table, table XIX a summary by industries, and table XX a summary by cities, of the condition of health of the girls at the age of beginning work, during previous occupations, and now, such conditions being classified as good, fair, and bad; tables XXI to XXVII, inclusive, present in detail and in condensed form the facts as to education, church attendance, home condition and shop condition as to comfort, etc., separate tables showing these facts for workingwomen with both parents native born, with one parent native born and one foreign born, and with both parents foreign born; table XXVIII is a detail table, table XXIX a summary by industries, and table XXX a summary by cities, showing the classified yearly earnings and average time lost of those girls who reported earnings; table XXXI presents in detail for cities, industries, and occupations, and table XXXII, in summarized form for cities, the itemized yearly income and expenses of those who reported both.

SPECIAL REPORT, 1889. (MARRIAGE AND DIVORCE.)—[1074 PAGES.]

Introduction (14 pages).—Under this head are given the legislation providing for the special inquiry, a statement of the plans, scope, and difficulties of the investigation, and a brief statement of the contents of the general tables. The inquiry extends

over a period of twenty years, from 1867 to 1886, embracing the statistics of nearly all the divorces granted during that period, and of such marriages as were recorded under state authority. A table shows the names of counties in which court records were destroyed during the period, with the dates of destruction.

Existing statutory regulations governing marriage in the United States; sectarian influence on marriages (51 pages).—Under this heading is embraced a synopsis of the laws governing marriage in the several states and territories, as found in the statutes thereof. The subject is treated under the following topics: Definitions of marriage; encouragement and restraint of marriage; legislation relative to the parties; prohibited degrees; void, voidable, and prohibited marriages; remarriage during the life of former spouse; preliminaries to marriage; celebration; subsequent marriage after divorce; record of marriages. The legal digest is supplemented by a short account of certain sectarian practices and customs relative to marriage.

Existing statutory regulations governing divorce in the United States; sectarian customs and influences (52 pages).—This heading embraces a synopsis of the statutory regulations relating to divorce, and is presented under the following subdivisions: Divorce and annulment; legislative divorces; judicial divorces; residence limitations; service of notice on defendant; causes for absolute and limited divorce; special provisions for defence; alimony; when divorce is refused; validity of divorces obtained in another state; change of name after divorce; divorce statistics; annulment. To this has been added an account of sectarian practices and customs affecting divorce.

The movement of divorce, 1867 to 1886, inclusive (38 pages).—This chapter embraces a textual and statistical consideration of the number of divorces granted during the years 1867 to 1886 in the United States, based on the general tables compiled by the Department. The text includes a consideration of the movement of divorce in each state separately, and in the principal cities generally. The influence of legislation on divorce is also considered. The tables give the number of counties in each state for which a record of divorces and marriages was obtained, and the total counties in each state and in the country; the number of divorces granted to colored libellants by states, where the libels state the color of the libellant or of the libellee; the number of marriages and divorces, each year, and the proportion of divorces to marriages, each year, from 1867 to 1886, in states in which the former are quite fully reported, and in states in which they are not fully reported, respectively; the number of divorces granted each year, from 1867 to 1886, by states and territories, with totals for the United States; divorces, in each state and per cent. of increase of divorces, from 1867 to 1886, by periods of five, ten, and twenty years; the per cent. of increase of population and of divorce, from 1870 to 1880, by states; the number of divorces granted in certain countries in Europe, each year, from 1867 to 1886, by countries; the population, estimated number of married couples, number of divorces, and number of married couples to one divorce in 1870 and 1880, for each state, and the ratios between 1870 and 1880, of estimated married couples and divorces. A series of tables, designated A to E, illustrates the movement of divorce in cities. Table A gives the cities and the counties in which they are situated, with the population of each city and county by the censuses of 1870 and 1880, the population of the state outside of the county, and the population of the whole state; table B gives the estimated married couples for the county, for the state outside the county, and for the whole state; table C gives the number of divorces on the foregoing plan; table D the estimated married couples to one divorce, and table E the preceding facts reduced to percentage. An additional table gives the number of applications for divorce, and divorces granted each year, from 1867 to 1886, in a few counties of each of twenty states.

The causes for which divorce is granted (14 pages).—Contains a textual and statistical consideration of the causes for which divorce is granted. Two tables give divorces granted to husbands and wives, respectively, from 1867 to 1886, by states and classified causes, and another exhibits the result of an examination in 45 counties in twelve states, as to the influence of intemperance on divorce.

Duration of marriage before divorce was granted (11 pages).—Under this heading are presented, with brief textual comments, a table, giving the duration of marriage before divorce was granted in the United States, for each year, from 1867 to 1886, by classified causes and sex, with totals and averages for the United States; a table, designated A, showing the average duration of marriage before divorce of parties who had been married twenty-one years and over, by states and sex, for the same period; a similar table, designated B, presenting the same facts arranged by sex and classified causes; and two tables giving the years from marriage to separation, and from separation to divorce, in 45 counties scattered over eleven states, for the period.

Place of marriage of divorced parties; the publication of notice (16 pages).—This is a textual and statistical consideration of the migration of parties from one state to another for the purpose of seeking divorce, and of the necessity for publication of notice. The tables give the number of persons, by sex, divorced during the period in the states where married or in other states, the number of persons married in the states where divorced, in other of the United States, in foreign countries, and whose place of marriage was unknown; the place of birth of the total population in 1870 and 1880, classified as born in the state where living, in another state, or in a foreign country; the number and per cent. living in another state than where born, in 1870 and 1880, and the number and per cent. divorced in another state than where married, by states; and a table showing for certain counties in various states the number of cases in which notice was served by publication, and the number in which personal service was had.

Children and alimony (6 pages).—Contains short statistical tables, with textual analysis, giving a summary of cases of persons with children, and without children, divorced during the period, by states and causes, and by years and causes; the number of cases in which alimony was granted, and total number of divorces for certain states and counties.

General tables (765 pages).—These tables are nine in number, covering all the facts collected on the subject. Each table is for the period from 1867 to 1886, inclusive. Table I gives, by counties for each state and territory, the population for 1870 and for 1880, and the number of marriages and divorces, so far as they were obtainable, each year, from 1867 to 1886, with totals for each county and state. Table II is a recapitulation of Table I, bringing into compact form, by states, the number of divorces granted each year, with totals for the United States. Table III shows the number of divorces, by specific causes, arranged by states and years. Table IV shows the duration of marriage before divorce, arranged by states, and by specific causes for which divorces were granted and to which party granted, whether to husband or to wife. Table V shows the number of divorces for each state by years and classified causes, that is, by causes condensed from those given in detail in previous tables, and classified as follows: Adultery, cruelty, desertion, drunkenness, neglect to provide, combinations of the preceding or of a preceding with some minor cause or causes, and all other causes not combinations with any of the preceding. Table VI shows the duration of marriage before divorce, arranged by years, according to causes for which divorces were granted. Table VII shows the duration of marriage before divorce, arranged by states and according to the years in which divorces were granted. Table VIII shows, by states for each year, whether the divorced persons were married in the state in which divorced, in an adjoining state, in other of the United States, in a foreign country, or whether the place of marriage is unknown. Table IX shows, for each state, arranged according to classified causes and years, the number having children, the average number of children, and the number without children.

Appendix: Laws and statistics relating to marriage and divorce in Europe (89 pages).—This is a textual and statistical consideration of the laws and movement of marriage and divorce in Austria, Hungary, Belgium, Canada, Denmark, France, United Kingdom, German Empire, Italy, Netherlands, Norway, Roumania, Russia, Sweden, and

Switzerland. A bibliographical note is added. Authorities are noted throughout. The tables give the population of Austria in 1880, by religions; marriages and divorces in Austria and in Vienna, from 1867 to 1886, by years; marriages celebrated and dissolved by death or judicial decree in Vienna, from 1867 to 1886, by years; marriages dissolved by decree of the court in the judicial district of Vienna, from 1882 to 1887; an analysis of actions for separation brought without mutual consent, and for divorces in the judicial district of Vienna, from 1882 to 1886, the religious status of the parties, and the occupation of the husbands, the ages, duration of marriage, and children in marriages dissolved in the judicial district of Vienna from 1882 to 1886; the population of Transylvania, Hungary proper and Transylvania, and all Hungary, by religions, according to the census of 1880; the number of marriages and divorces in Hungary, from 1870 to 1886, and in Hungary proper and Transylvania and in Buda-Pesth, from 1867 to 1886, by years; the number of marriages and dissolutions in Hungary and Transylvania, from 1876 to 1886, by years and religions; the religious status of the spouses when of different religions from their husbands, from 1877 to 1886, by years; and marriages and divorces in the different sections of Hungary for 1878-'79, classed according to the language spoken; the number of marriages and divorces in Belgium, each year, from 1830 to 1886; marriages and divorces in Belgium, by provinces, from 1840 to 1885; marriages and divorces for all Belgium and for certain cities of Belgium compared, from 1870 to 1885, and for certain cities of Belgium during certain specified years, from 1865 to 1885; divorces granted in Canada, from 1867 to 1888, by years, and for the same period, by provinces and causes and by sex; marriages and divorces in Denmark, from 1867 to 1887, and divorces, from 1871 to 1881, by years, and marriages in Copenhagen, from 1867 to 1887, by years; marriages and divorces in France and in Paris, each year, from 1867 to 1886; actions for limited and absolute divorce in France and in Paris, each year, from 1867 to 1885, showing sex, causes, whether with or without children, and result of action; marriages and divorces in France, from 1802 to 1886, by irregular periods; occupations of husbands applying for divorce, from 1837 to 1880, by periods; marriages and separations in the department of the Seine, from 1837 to 1878, by periods; the number of applications for limited divorce, causes for application, and their result, in France, from 1837 to 1880, by periods; the cross-bills filed to actions for limited divorce, from 1841 to 1880, by periods; and the duration of marriages before application for limited divorce, from 1841 to 1880, by periods of years; marriages and divorces in England and Wales, in Scotland, and in Ireland, and in all three together, from 1867 to 1886, by years; the number of marriages and divorces in the German Empire, and separately in Prussia, Bavaria, Saxony, Wurtemberg, Baden, Hesse, Elsass-Lothringen, Hamburg, and in Berlin, each year, from 1867 to 1886, and in Thuringia, from 1863 to 1878; the population of Germany in 1885, and marriages in 1885 and 1886, by political divisions; the population of Germany, December 1, 1880, by political divisions, and conjugal condition of the inhabitants; the population of Germany in 1880 and 1885, and matrimonial actions instituted and concluded, and applications for divorce and verdicts rendered, each year, from 1881 to 1885, by judicial districts; the number of matrimonial actions in Baden, from 1867 to 1879, their causes and results, and the occupations of husbands divorced, from 1876 to 1880; the number of marriages to one divorce in Bavaria, from 1862 to 1875, by provinces, and by provinces and religions of spouses; the number of applications for divorce in Hamburg, each year, from 1869 to 1887; the population of Prussia in 1880, by geographical divisions; the number and result of attempted reconciliations in divorce cases by the ecclesiastical authorities, each year, from 1869 to 1879; the number of divorce cases instituted in Berlin, the grounds upon which divorces were granted, the number of the divorced having children, and the religion of the divorced, each year, from 1879 to 1884, and the occupations of the husbands divorced, each year, from 1880 to 1884; the duration of marriages dissolved, including annulments, in Saxony, each year, from 1866

to 1879, the number of matrimonial actions in Saxony, each year, from 1866 to 1878, and grounds upon which divorces were granted; the number of marriages and divorces, the number of matrimonial actions brought and number concluded, the grounds upon which divorces were granted and the duration of married life of those divorced in the judicial district of Dresden, from 1867 to 1878, by years; the number of dissolutions of marriage, by causes and years, in Wurtemberg, from 1870 to 1875; the number of marriages and separations in Italy, from 1867 to 1886, by years, and the number of applications in Italy (except Rome and Venice for years prior to 1871) for separation and their results, from 1866 to 1884, and the number of applications for separation, their causes, and results, by judicial districts, in Italy, from 1866 to 1879, inclusive (except Rome and Venice prior to 1871); the number of marriages and divorces in the Netherlands, each year, from 1867 to 1886, the number of divorces after five years' separation, each year, from 1877 to 1886, the per cent. of divorced couples, Catholic or Protestant, and the number of marriages to a divorcee for the period 1850 to 1864, by provinces, and the number of children of marriages dissolved by divorce, from 1860 to 1878, by periods; the number of marriages, each year, from 1867 to 1886, and of divorces, from 1870 to 1884, in Norway; the number of marriages and divorces in Roumania, each year, from 1871 to 1880, and the number of applications for divorce, in what year of marriage made, and their causes and results, each year, from 1875 to 1877; the number of marriages and divorces in Russia, from 1867 to 1886, among members of the Evangelical Augsburg Confession, and the Evangelical Reformed Confession; the number of marriages and divorces, with causes, each year, from 1866 to 1885, among the orthodox of Russia; and, separately, in the dioceses of Viatka, Moscow, Kief, and Saint Petersburg, in the last also classified by religions; the number of marriages and of divorces granted in Finland, each year, from 1867 to 1886, and by causes, each year, from 1875 to 1879; and the number of marriages and divorces in Poland, each year, from 1867 to 1886, by religions; the number of marriages and of divorces, with causes, in Sweden, each year, from 1867 to 1886; the number of marriages and divorces in Stockholm, from 1867 to 1886, by years; the number of betrothals dissolved in Sweden and Stockholm, each year, from 1867 to 1886; the number of divorces in Sweden and Stockholm, each year, from 1831 to 1866; and the relative ages of the divorced, duration of dissolved marriages, etc., in Sweden, each year, from 1876 to 1880; the number of marriages and divorces in Switzerland, and, separately, in six cantons only, by years, from 1867 to 1886; the number of divorcees, the number having children, and the duration of marriages in Switzerland, each year, from 1876 to 1880, the relative ages of the parties divorced, each year, from 1877 to 1880; the population to one divorce granted, annually, in Switzerland, from 1876 to 1880, by occupations, and the duration of marriages dissolved by divorce in 1880, according to the ages of the parties at the time of divorce.

FIFTH ANNUAL REPORT, 1889. (RAILROAD LABOR.)—[888 PAGES.]

Introduction (5 pages).—This embraces a textual statement of the character of the investigation and of the methods employed in conducting it. The purpose of the investigation was to find out the relations of railroad employes and the corporations under which they work, the wages paid in all branches of the service and in different parts of the country, and the time lost, as well as other matters of vital interest to railroad employes. The investigation covered sixty different roads representing all parts of the country and all conditions of railroad labor, and employing 241,910 persons. The roads were divided into seven geographical groups, viz: the New England group, Middle Atlantic group, Central South Atlantic and Gulf group, Central Northern group, Southwestern group, Northwestern group, and Pacific group. A table shows the states constituting each group, with the number of employes in each. An accompanying map shows the territory comprised within each group. Two tables give the number of employes on each of the sixty roads and the group to

which it belongs, and separately for ten selected roads, concerning which the information is presented in greater detail. Each road is represented by a number, the name in no case being given.

The relations of employes and corporations (37 pages).—This is a wholly textual consideration of the restrictions placed by railroad companies on the use of intoxicating liquors by their employes; an account of the policy of furnishing dwelling houses by the companies for the use of their employes; a description of the beneficiary institutions maintained by the different railroads; a statement of the views of the chief officers of the great railroad labor organizations in regard to insurance funds, beneficiary associations, technical schools, etc.; the reproduction of a statement regarding accidents contained in the third annual report of the Interstate Commerce Commission, embracing a table showing the number of passengers, employes, and other persons killed and injured in railroad accidents during the year ending June 30, 1888; and a consideration of the liability of employers for personal injuries to their employes, including copies of the British employers' liability act of 1880, and the laws of the different states concerning the liability of employers for personal injuries to their employes.

Time and earnings; analysis of general tables (105 pages).—A textual consideration of the results of the investigation, with numerous short illustrative tables, which summarize and bring out more clearly the information to be derived from the general tables. These tables give the number of employes of the sixty roads combined by detailed occupations; the detailed occupations divided into groups of related occupations; the number and per cent. of the total number of employes classified according to groups of daily earnings; number of days employed and annual earnings; the number and per cent. of timeworkers by groups of rates; the number and per cent. of employes in leading occupations in each of the sixty roads, grouped by occupations according to their daily rate of pay and according to their annual earnings; the number of employes on each road, arranged by groups of related occupations, according to their daily rate of pay, the number of days employed, and their annual earnings, with summaries of totals and percentages presenting the same facts for the sixty roads combined; the number and per cent. of employes by leading occupations, classified according to their daily rates of pay and annual earnings; the average daily rate of pay, and average annual earnings in leading occupations, by geographical groups of roads; the average daily rates of pay, and average annual earnings of railroad employes in Great Britain and the United States compared, by roads and leading occupations; the number of employes, the total number of days employed, the total earnings, the average number of days employed, and the average earnings, and the number of employes which would be necessary if working on full time of 313 days to accomplish the same results, with their consequent average earnings, and a summary presenting the same facts for all occupations combined, by selected occupations for all roads, the actual number of employes, the number of employes which would have been necessary had they been continuously employed, and the ratio of the necessary number to the actual number employed, and a table showing illustrative cases of long tours of duty of trainmen by roads and geographical groups.

General tables (715 pages).—This chapter embraces six tables of details. Table I, 346 pages in length, shows, by occupations, the number of days each employe, of each of ten selected roads, was actually employed during one year, the daily rate at which employed, and his classified earnings for a year. In table II, 278 pages in length, all the facts shown in the first table for ten roads are summarized for the whole sixty roads covered by the investigation, grouped as to rates. Table III, 2 pages in length, summarizes the same facts for all the employes of the sixty roads combined. Table IV, 2 pages in length, shows, for all roads and all occupations combined, the percentage of the number of employes, arranged according to the plan of the preceding tables. Table V, 84 pages in length, shows, by occupations for each of the sixty

roads separately, the number of employes, distinguishing between those working less than 301 days, and those working 301 days and over, the average number of days employed in each case, and the average earnings. Table VI, 2 pages in length, shows the maximum and minimum rates of daily wages of employes, by occupations, on twenty of the principal railroads in Great Britain.

SIXTH ANNUAL REPORT, 1890.—[1414 PAGES.]

Introduction (25 pages).—The introduction quotes the act of Congress directing the investigation which has resulted in this report, makes a statement of the plan and scope of the work, reviews its difficulties, and considers the various accepted definitions of the term Cost of production. A short table gives the production of pig iron in the different sections of the United States, as reported at the eleventh census. Other tables, taken from reports compiled by James M. Swank, secretary of the American Iron and Steel Association, show the statistics of the annual volume of production of pig iron, steel, etc., in this and other countries; the consumption of pig iron, and of iron and steel rails in the United States, from 1835 to 1889, inclusive; the consumption of all kinds of rails in the United States for the years from 1867 to 1889, and the imports of iron and steel and their products into the United States for four years, from 1886 to 1889, inclusive.

Cost of production (256 pages).—Under this heading are given eleven general tables, covering 618 establishments. These tables are, respectively, for the cost of production of pig iron, of muck bar iron, of finished bar iron, of miscellaneous iron products, of steel ingots, of steel rails, of miscellaneous steel products, of bituminous coal, of coke, of iron ore, and of limestone, at various establishments, mines, ovens, and quarries, in various states and countries. For each general table there are numerous sub-tables, designated by capital letters. To show the location of the establishments under pig iron the United States have been divided into two districts: the northern and the southern; and Europe was divided into two: Great Britain and the continent of Europe. For the other industries no division of the United States has been made.

Table I gives the cost of production of pig iron separately for each establishment. The sub-tables, ranging from A to L, show, respectively, the period covered and quantity of product, the appliances of production, the assemblage of the materials, the chemical analysis of ore, the kind, quantity, and cost of materials charged into the furnace, the proportions of materials charged into the furnace, the general statement of cost for the period, the elements of cost in one ton of 2,240 pounds, the per cent. of each element of cost in one ton of 2,240 pounds, the total additional cost of certain theoretical elements, and the additional cost of certain theoretical elements in one ton of 2,240 pounds. From the foregoing table there have been drawn certain minor tables showing various features for twenty-six blast furnaces of the northern district of the United States, and twenty-four of the southern district, making run-of-furnace pig iron, by which the relative condition and results can be intelligently studied. These are followed by nine short summaries of the returns for run-of-furnace, gray forge, and Bessemer pig iron, each being supplemented with a statement of the average cost per ton for insurance, interest, and depreciation of value of plant, which are designated as theoretical elements of cost. A series of short tables shows the cost of direct labor, etc., in one ton of pig iron: the cost of producing the quantity necessary for one ton of pig iron, of iron ore, of coal, of coke, and of limestone, and of their conversion into iron; the total cost of one ton of pig iron from the mining of the materials to the finished product; and the per cent. of cost of direct labor in one ton of pig iron from the mining of the materials to the finished product. Another series shows the cost of pig iron, etc., in various countries in previous years, the earliest period given being 1848; the royalties upon mine products demanded by foreign governments; the average monthly prices per ton of 2,240 pounds of pig iron in Pennsylvania from 1887 to 1890, inclusive; the

prices per ton of 2,240 pounds of No. 1 pig iron at Philadelphia since 1842, and the prices of Lake Superior iron ore delivered at Cleveland for seven years, from 1884 to 1890, inclusive, taken from the reports of James M. Swank, secretary of the American Iron and Steel Association; and the market price of iron per ton in Great Britain for three years, from 1888 to 1890, inclusive, taken from the *Economist* (London) Monthly Trade Supplement of November 15, 1890.

Tables II to VII, inclusive, show, respectively, the cost of production of muck bar iron, of finished bar iron, of miscellaneous iron, of steel ingots, of steel rails, and of miscellaneous steel. Eight sub-tables, ranging from A to H, for each of the general tables, have been given, and these conform, as far as possible, to the plan of presentation as given under pig iron. Summaries, drawn from the sub-tables, are given for muck bar iron, for finished bar iron, and for steel ingots. Other tables show the cost of labor in making muck bar iron and finished bar iron in England in various years, from 1877 to 1890, inclusive; the average monthly wholesale prices of best refined rolled bar iron at Philadelphia for each month from January, 1844, to December, 1889, inclusive; the elements of cost in one ton of steel rails made in England in 1889, and also in 1890; the cost of direct labor, etc., in one ton of steel rails made in the United States, in Great Britain, and on the continent of Europe; the average prices of steel rails in the United States and Great Britain for the years 1867 to 1890, taken from different authorities; the average monthly prices of steel rails at works in Pennsylvania for the years 1868 to 1890, inclusive; and the market price of steel rails per ton in Great Britain for the years 1888, 1889, and 1890, taken from the *Economist* (London) Monthly Trade Supplement of November 15, 1890.

In table VIII, for bituminous coal, the sub-tables also range from A to H, and the plan of tabulation is nearly identical with that pursued in the preceding industries. The usual summary follows. A series of short tables gives the cost of production of coal in Belgium for 1888; the selling price of bituminous coal at Pittsburgh, Pennsylvania, for various periods, from 1880 to 1890; the average monthly price of coal at the mine, Upper Silesia, Germany, for three years, from 1888 to 1890, inclusive; and the average monthly price of coal and coke per ton in the Dortmund (Westphalia) district for three years, from 1888 to 1890, inclusive.

Tables IX, X, and XI show the cost of production of coke, of iron ore, and of limestone, the presentation being in the same general form as for the preceding industries. For coke and iron ore the sub-tables range from A to G, and for limestone from A to F. The usual summarizing at the end of the tables is also given. Other tables show the selling price of coke per ton at Pittsburgh, Pennsylvania, from the latter part of 1887 to May 22, 1890; the monthly price of coke per ton at Connellsville, Pennsylvania, from January, 1884, to December, 1889, inclusive; the average monthly price of coal and coke per ton in Charleroi, Belgium, from January, 1888, to May, 1890, inclusive, and the freight rates for pig iron, steel, etc., from various points of production in the United States to points and ports of delivery, and from ports in Great Britain and other countries to various ports in the United States, gathered from official sources.

Time and earnings (295 pages).—This part of the report deals with the time employed and the earnings gained by workmen in 99 of the 618 establishments represented in the tabulation of cost of production, the period covered being generally one year.

Copies of the payrolls were made in these ninety-nine cases, and these form the basis of the general tables XII to XIV, inclusive, given under this head. Table XII gives the actual and theoretical time and earnings, and presents the facts in detail for each establishment separately, by localities and occupations, through the several industries, in a series of sub-tables ranging from A to Y. Table XIII summarizes these facts by occupations, and table XIV summarizes them by bringing the establishment totals together in each industry.

The efficiency of labor (22 pages).—This article is devoted to the efficiency of labor. The number of establishments represented in the tabulations is 138, engaged in the manufacture of pig iron, muck bar iron, steel ingots, steel rails, and the mining of iron ore.

Table XV gives the efficiency of labor in detail for each of the industries named, by establishments and localities, the tons of product being apportioned successively to the work in the several classes of occupations. Table XVI gives the efficiency of labor, by occupations, the comparison being shown by grouping like occupations. The range of efficiency is shown in condensed form, and precedes the presentation of the general tables. Table XVII is a summary of table XV. Table XVIII, like table XVII, deals with establishments as a whole, and shows the efficiency of labor, by industries. These establishments are additional to those shown in table XV. To show that high wages and high efficiency usually go together, condensed statements, drawn from tables XVII and XVIII are given. These minor tables also show quite clearly the variation in efficiency between different localities.

Cost of living (802 pages).—This division of the report contains a vast amount of information pertaining to the cost of living of workingmen, given in tabulated form. The facts were gathered from the heads of families employed in the same establishments from which schedules relating to the cost of production and pay accounts were obtained.

There are 3,260 families, representing 16,581 individuals, embraced in the tabulations, which are given in six general tables, numbered from XIX to XXIV, inclusive. A series of tables representing 1,613 families, under the subject of the consumption of food based on these general tables, is embodied in the text, and presents a scientific basis of comparison of the quantity and value of food consumed by different-sized families. In this presentation those families with boarders or with a large number of children have been excluded. The basis used ascribes a consuming power to the husband of 100 units; to the wife, 90 units; to children from 11 to 14 years of age, inclusive, 90 units; to children from 7 to 10, inclusive, 75 units; to children from 4 to 6, inclusive, 40 units, and to children from 1 to 3, inclusive, 15 units; while children over 14 years of age have been excluded from consideration.

Table XIX exhibits the details of the cost of living for each family in a series of sub-tables, the workers in pig iron being first taken up, and those of the other industries following in order.

These sub-tables give a description of the family; the age of husband and wife, and the age and sex of the children; the yearly income of the individual members of the family from all sources; the itemized statements of expenditure for food, and, wherever possible, with the quantity as well; the itemized statements of expenditure other than for food, including whether the family owned the house in which they lived, or whether the house was hired, or furnished by the employer; the total cost of living in comparison with the total income, thus showing whether a surplus had arisen from the year's work, or whether a deficit had occurred; and remarks which will often throw light upon matters treated of in the preceding tables. Table XX is a summary of the cost of living, by states and nationalities, for each industry, drawn from the details of table XIX.

Table XIX recapitulates the state totals found in table XX so that comparisons between states and countries may be easily made. Table XXII summarizes by nationalities, in two groups, one representing the United States and the other Europe, the facts shown in table XX for individual states. Table XXIII brings together the industry totals of table XXI for the United States and Europe in separate groups to facilitate comparison, and table XXIV summarizes the facts for all industries combined, by nationalities, in two groups, the United States being one and Europe the other.

SEVENTH ANNUAL REPORT, 1891.—[2 VOLS., 2048 PAGES.]

Introduction (5 pages).—The introduction gives an outline of the scope and plan of the investigation, reviews its difficulties, and defines the meaning of the term cost of production, as applied to this report. A short table gives, by industries, the number of establishments embraced in the cost of production tables.

Cost of production (355 pages).—This part of the report relates to the cost of production of cotton textiles, cotton yarns, woollen and worsted textiles, woollen and worsted

yarns, linen textiles, silk textiles, window glass, green glass bottles, flint glass bottles, and lamp chimneys in various establishments in various states and countries.

The facts relating to the cost of production of cotton textiles are presented in 13 sub-tables ranging from A to N showing, respectively, the locality of each establishment; the period of time covered, including the terminal dates and the days of running time; the kind of power used in running machinery; the operation of picking and of roving; information as to the kind of carding, whether single or double; the number of spindles and looms in operation in each establishment; the quality and quantity of cotton used; the quantity of textiles produced both in pounds and yards; the per cent. of waste from cotton to finished goods; the total expenditures of each establishment for materials, labor, officials and clerks, supplies and repairs, water power, taxes, insurance, interest, and depreciation of value of plant; a description of each kind of goods and the estimated per cent. of sizing, the production of yarn per spindle and of cloth per loom, the cost of labor in one yard in detail, the elements of cost in one yard on account of materials, labor, supplies and repairs, water power, taxes, insurance, interest, and depreciation of value of plant, and the per cent. of each element of cost in one yard. The cost of production of cotton yarns is shown in ten sub-tables, of which the first six present facts analogous to those shown in the first seven sub-tables relating to cotton textiles, so far as the production of yarn is concerned.

The remaining tables give a description of each variety of yarn, and separately the cost of labor in one pound, etc., the elements of cost in one pound, and the per cent. of each element of cost in one pound. The facts relating to the cost of production of woollen and worsted goods, and of linen and silk textiles are presented, as far as applicable, in tables similar in scope and character to those relating to the cost of production of cotton textiles. The table covering the facts relating to the cost of production of glass is divided into 48 sub-tables, showing the period of time covered, the number of blowings made, and the quantity produced; the appliances of production; the quantity of single and of double strength glass produced; the quantity and the cost of materials charged into the furnace; the total expenditures in detail; the various expenditures in one box of 50 square feet of glass, regardless of size; and the same information regarding all the various sizes, single and double strength being considered separately. The facts pertaining to the cost of production of green glass bottles and of flint glass bottles are given in 13 sub-tables showing for each separately, the period covered and quantity of product; the various appliances of production; the quantity and cost of materials charged into the furnace; the total expenditures in detail; the cost of materials and certain elements of cost in one pound of glass; and the cost of materials and the elements of cost in one gross of bottles. In the tabulation of facts relating to the cost of production of lamp chimneys, the same form of presentation is used as in the case of green glass and flint glass bottles, such variations as occur pertaining mainly to the details of labor. Several short tables presented in connection with the tables relating to the cost of production of lamp chimneys show the cost of certain other varieties of products, viz: Headlights, reflectors, lantern globes, and street lamp globes.

Time and earnings (477 pages).—This part of the report treats of the wages and earnings of workmen in some of the establishments covered by Part I relating to the cost of production. The general tables, six in number, are based upon the payrolls, copies of which were secured in 125 of the 278 establishments represented in Part I of the report. Table XI gives in a series of sub-tables, for each establishment separately through the several industries, the actual and theoretical time and earnings. Table XII gives a summary of the details presented in the preceding table, by occupations; and table XIII summarizes the same facts by industries. Table XIV shows the actual and theoretical time and earnings in various industries in the United States, reduced to the uniform basis of one year; table XV, the number of employes in various industries in the United States, by occupations and groups of

rates; and table XVI, the number and the percentage of employes without reference to occupation, in the various industries represented in tables XIV and XV, classified according to groups of daily rates of pay. The facts exhibited in the last three tables pertain not only to the textile and glass industries, but for the purpose of comparison, also to the iron and related industries as reported in the Sixth Annual Report.

Cost of living (1171 pages).—The data forming the basis of this part of the report were collected from 5,284 families representing 27,577 persons. Three general tables numbered XVII, XVIII, and XIX give, respectively, the cost of living, by families, in the cotton, woollen, and glass industries, the silk and linen industries not being represented in this part of the report. Each of these tables gives a description of the family; the age and the sex of each member of the family; the sources of income; the expenditure for food, and the expenditure other than for food; the contrasted income and expenditure; and remarks regarding the general surroundings of each family. Eleven tables, numbered XX to XXX, are summaries and recapitulations drawn from the preceding general detail tables. The remaining part of the report relates to the consumption of food and to the income and expenditure in certain families similar in their composition and designated as normal. These facts are presented in a series of fourteen tables and are arranged in various ways, including recapitulations and summaries by states, by size of family, by industries, and by objects of expenditure; and for the purpose of comparison of the facts pertaining to the industries treated of in this report, several tables revised from the Sixth Annual Report. Several brief tables, preceding the foregoing general tables, give the average expenditures per family on account of rent, fuel, lighting, clothing, amusements and vacation, taxes, insurance, organizations, intoxicating liquors, tobacco, food, religion, charity, and books and newspapers, in various industries and countries as far as comprehended in this report; the average income per family from all sources, and average expenditure for all purposes; Dr. Engel's economic law relative to the proportional expense of living in Prussia, and several illustrations; the results of investigations by the bureaus of Massachusetts and Illinois, demonstrating the propositions propounded by Dr. Engel.

WISCONSIN.

FIRST BIENNIAL REPORT, 1883 AND 1884.—[303 PAGES.]

Labor bureaus (19 pages).—This gives a sketch of the establishment of labor bureaus in the states, with lists of the bureaus; an account of national bureau conventions, and a copy of the act creating a bureau of labor statistics in the state.

Federal statistics (38 pages).—This comprises statistical tables, from the United States census of 1880, giving the population of the state by counties, for each decade, from 1840 to 1880; the population, by counties, according to nationality, sex, age periods, and color; the population, by occupations, according to sex, nativity, and age periods; the population, by minor civil divisions; the number of manufacturing establishments, by counties and industries, their capital, the number of employes, according to sex and age periods; the amount paid in wages, the value of raw materials and of the product, with a recapitulation, and the same information for Milwaukee alone; the number and value of farms in the state, by counties, the number of acres of improved land, the value of live stock, the value of farming implements and machinery, and the amount and value of farm productions by articles; and for a number of selected industries, the proportion using steam and water power.

Wisconsin state prison and other institutions; convict labor (34 pages).—This is devoted to a consideration of the different penal and reformatory institutions of the state,

with illustrative tables giving the number of prisoners in the United States, by states, and the number at work, classified by sex and by method of employment; the fixed task of prisoners at the state prison, showing how labor is divided; the earnings of free labor in the manufacture of boots and shoes; the number of boys committed to the state industrial school since its organization, by counties, each year, from 1860 to 1884, and the factory product of said school, by articles, for the year ending October 1, 1884; the number of commitments to the Milwaukee county house of correction, by crimes committed and by former occupations, and the number of illiterates among them, by nationality, the social relations and drinking habits of the convicts, and a copy of the contract for prison labor.

Apprentices, etc. (28 pages).—This discusses the apprenticeship system, industrial education, the truck system of wages, the relation between employer and employé, the subject of working-girls, etc.

Trades and labor unions (22 pages).—This gives an account of the principal labor organizations in the state.

Strikes (18 pages).—This gives a brief account of the most important strikes which occurred in the state in recent years, with reference to their causes, duration, and results.

Natural diversity of occupations (19 pages).—This presents a consideration of various subjects relating to labor, such as diversity of occupations, child labor, laws of the state regulating hours of labor; hours of labor of women and children; relating to mechanics' and to contractors' liens; securing the wages of railroad laborers; the wages of laborers, etc., on Milwaukee public works; and providing for exemption from execution and attachment. A short table gives, by counties, the number of three-story factories in the state with and without fire escapes. A consideration of the free schools and compulsory education is also given.

Bureau statistics of manufacturers, by counties, 1884 (33 pages).—Under this heading are given statistical tables showing, by counties and industries, the number of establishments, the number of employés (male and female), their average weekly wages, the amount of capital invested, the value of the raw material and of the product, the number of weeks in operation, etc., with a recapitulation by counties; for a number of selected industries, the number of establishments and the capital invested, the number of employés and their aggregate wages, and the number of wage-earners, by counties, classified as apprentices, married males, married females, males over 14, females over 14, etc.

State products (17 pages).—This is a textual and statistical consideration of different industries of the state. The tables give the log product, by districts, for 1883-'84; a list of lumber mills showing the lumber and shingle cut in 1883, and the number of logs left in mills or store booms; the production of liquors and cigars, and the amount of revenue collected, by districts, in 1883; and the number of men, classified by occupations, and their wages, employed by each of the several railroad companies of the state.

Prices, earnings, etc. (36 pages).—This comprises statistical tables with textual comments, giving the prices of food, clothing, fuel, and other articles in the state, each year, from 1880 to 1884; the daily wages of a large number of workmen, by occupations, each year, from 1880 to 1884; from consular reports, the prices of food at Liverpool, Vienna, Chicago, and Milwaukee, in 1884; the weekly wages of workmen in similar occupations at London, Vienna, Chicago, and Milwaukee in 1884; the price of wood and coal at Milwaukee each month, from 1880 to 1884; the amount of capital, the total amount of wages paid, and the products of 333 establishments considering the tariff beneficial and of 64 establishments considering it detrimental; the number of business failures in the state each year, from 1880 to 1884, with the amount of assets and liabilities; extracts from Bradstreet's, showing the estimated number of employés in 1882, in various states and cities, compared with 1880, and the number of persons engaged in strikes in the United States in 1882.

Report on the Pullman investigation (24 pages).—Under this topic is presented a joint report by the chiefs and commissioners of the various bureaus of labor of an investigation of the economic experiment conducted by the Pullman Palace Car Company. The sketch includes its history, methods of construction, a table showing its growth in population, and a brief discussion of wages, rents, living expenses, health, etc.

SECOND BIENNIAL REPORT, 1885 AND 1886.—[578 PAGES.]

Introduction (52 pages).—This contains a textual consideration of various matters of interest to employes, suggested by the investigations which were undertaken.

Factory, hotel, labor, and lien laws (42 pages).—This chapter gives copies of the laws of the state relating to labor, factories, hotels, liens, building and loan associations, and a copy of the act creating the bureau of labor statistics, as enacted in 1885. The laws quoted regulate hours of labor; the hours of labor of women and children; require fire escapes for factories, etc., and doors in factories, etc., to swing outward; relate to employment of apprentices; secure wages of laborers, etc., on Milwaukee public works; provide for exemption of wages from execution; secure wages in cases of assignment; prohibit intimidation of voters; provide for exemption from execution and attachment; for protection of children; relate to liability of stockholders for laborers' wages; secure wages of railroad laborers; relate to mechanics' liens; to laborers' liens upon lumber; to liens for board and lodging; to liens against ships, boats, and vessels; and to building and loan associations.

Distributive and industrial cooperation (74 pages).—This is a historical and descriptive sketch of cooperation in various European countries and Australia, based on the report of Carroll D. Wright, chief of the Massachusetts bureau of labor statistics. Short tables throughout the text give the membership of the Rochdale Pioneers, the total amount of their funds, profits, and the amount of business done, each year, from 1844 to 1867; the profits of the productive departments of the English cooperative wholesale society in 1883, and a list of productive societies in Great Britain, with data of organization, yearly sales, profits, etc., in 1884.

Cooperation in the United States (76 pages).—This gives a sketch of a large number of associations in various states of the Union conducted on a cooperative basis.

Cooperation in Wisconsin (45 pages)—This gives an account of the different cooperative enterprises of the state, including a table which gives, by industries, the number of firms and employes, classified according to whether the manufacturers answered yes or no to the inquiry relative to the desirability and practicability of cooperation.

Strikes and industrial disturbances (77 pages).—Under this heading is given a consideration of most of the labor troubles which occurred in the state, from January 1, 1885, to September 1, 1886. A table compiled from the returns of 2,000 employers gives a list of strikes, by industries, and localities, showing the number of employes involved and their gain and loss in wages, the cause of each strike, its duration and result. A copy of the scale of prices agreed upon by journeymen tailors and their employers, of Milwaukee, is also given.

The eight-hour day (58 pages).—This gives an account of the agitation in the state for an eight-hour labor day. It consists mainly of a detailed account of the Milwaukee riot, May, 1886, with a list of the killed and wounded, and of those convicted of offences in connection therewith, and extracts from laws relating to riots, etc.

Boycotting in Wisconsin (18 pages).—This gives an account of boycotting in the state during the past year, 1885-'86, together with views of employers on the boycott.

Arbitration tribunals (26 pages).—This gives a sketch of arbitration in various European countries and in different states of the Union, including abstracts of laws relating to arbitration, opinions of employers and employes, and a tabular record of those employers of the state who expressed views for or against arbitration, showing the

number of firms and nature of business done, and the number of employ  s, by industries.

Foreign immigration (15 pages).—This is a brief consideration of immigration into the United States, and of the necessity for its restriction. Extracts from views of employers are given, and tables showing the number of immigrants landed each year, from 1820 to 1886; the foreign born population engaged in agriculture and manufactures, from 1870 and 1880, and by firms, the kind of persons they would exclude, and the qualifications they would require of those admitted.

Wisconsin workmen (15 pages).—This gives extracts from views of workmen on different phases of the labor problem, and a table giving, for individuals, their occupation, residence, yearly earnings, hours of labor, the number of days employed during the year, the number in family, the number owning homes, their yearly expenses in detail, etc.

Miscellaneous matters (15 pages).—This gives an account of bonus agreements and cut-throat contracts, including specimens of some of them used by corporations in Milwaukee, and a consideration of convict labor in the state.

Manufacturers' returns (26 pages).—This comprises statistical tables, compiled from the sworn returns of employers, giving, by establishments and industries, the number of employ  s (men, women, and children) and their wages and hours of labor for 1885 and 1886; a summary of wages, by industries, for 1885; and a summary showing industries in which female and child labor are employed, with their number and the proportion they bear to the whole number of employ  s in 1886.

Report of the state factory inspector (36 pages).—This gives the report of the state factory inspector, covering portions of the years 1885 and 1886.

THIRD BIENNIAL REPORT, 1887 AND 1888.—[398 PAGES.]

Introduction (24 pages).—This is a textual consideration of the work of the bureau, and of various matters of interest to workingmen, including lists of industries arranged according to aggregates of wages paid and to number of employ  s, and a table giving average wages, by localities.

Trade notes, remarks and suggestions by Wisconsin wageworkers (115 pages).—This gives extracts from remarks made by workingmen concerning immigration, home ownership, labor organization, improvement of the trades, general legislation, trade notes, and contracts.

Individual and trade statistics; tabulated returns of Wisconsin wageworkers (96 pages).—This embraces five statistical tables giving, for individuals, their occupations, location, earnings, hours of labor, nativity, age, conjugal condition, number owning homes, their wages, and method and frequency of payment; their earnings, time employed, and increase or decrease of wages in ten years; their product per day of hand and machine labor; their ages at beginning work, the length of their apprenticeship, etc.; and the peculiarities of their occupation, the bodily ailments peculiar to their trade, the cost of tools, etc.

Employers' statistics (26 pages).—This comprises statistical tables giving, by industries, the number of employ  s and their average daily wages, annual earnings, time lost and time employed, by occupations; the number of establishments, by industries; the number of their employ  s (male and female), and the total amount paid in wages; the number of employ  s and aggregate wages paid in 1887, in 44 wholesale establishments in Milwaukee, by industries; and the aggregate wages, by localities, the number of establishments and of employ  s in 1887, with the population of the places, according to the state census of 1885.

Synopsis of reports of inspection (124 pages).—This gives a tabular statement of establishments inspected, including factories, shops, and wholesale stores, showing the kind of power used in factories, and the number of employ  s, etc.; and of hotels, boardinghouses, etc., giving the average number of guests, and of servants.

FOURTH BIENNIAL REPORT, 1888 AND 1889.—[331 PAGES.]

Introductory (3 pages).—Under this head are embraced brief textual statements concerning the work of the bureau and the industrial condition of the state.

Statistics of the building trades (120 pages).—This chapter gives the result of an investigation concerning the condition of wage-earners in the building trades, based upon the answers of 248 contractors, the written statements of 538 workmen, the inquiries and direct reports of the secretaries of master builders' associations, the personal investigations by officers of the bureau, and copies of payrolls of 142 firms. The text gives selected replies of workmen concerning the condition of trade, home ownership, and their present condition as compared with that in the old country. The tables based on returns from individual workmen give for each, by occupations, his location, total yearly earnings, daily income, and number of days lost during the year. Other tables give the number of rainy days and the number of days the wind attained a velocity of 25 miles an hour at Milwaukee, each month, from 1887 to 1889; the ages at which 274 native and 231 foreign born workmen entered their trades; the number of workmen, native or foreign born, over 25 years of age, by ages, owning homes; the number of workmen classified by annual earnings, showing the number and proportion owning homes; and a statement of foreign born workmen, showing the monthly wages received in Europe, as compared with Wisconsin, for 26 days' work, their possible earnings in their native countries, with steady employment, as compared with their actual earnings at the trades in Wisconsin, from May 1, 1888, to May 1, 1889, and their possible annual earnings in Wisconsin, working 310 days. Tables based on returns from employers give, by location and occupation, the number of workmen classified according to their hourly earnings; the average earnings per hour and per year of 225 ten-hour work days and the average daily income for 365 days; the number and proportion of apprentices to journeymen as reported by contractors in each trade; copies of payrolls of 138 contractors showing the amount paid in wages each month during the year 1889 by each, with a recapitulation showing by months the total amount paid in wages and the number and per cent. of the men working and idle. Tables for each of a number of industries show, by localities, the average wages of workmen, with a recapitulation showing the number of workmen reported, classified according to occupations and hourly earnings. Tables compiled from returns made by officers of builders' exchanges show, by occupations, the average wages of workmen in 39 cities located in all parts of the United States compared with those paid in Milwaukee.

Statistics of manufactures (54 pages).—This chapter gives statistical tables showing, by industries, the number and per cent. of workmen reported, classified according to their daily wages, with a recapitulation by industries, accompanied by a diagram showing for all industries the per cent. of workmen, classified according to their daily wages. Other tables give, by industries, the number of establishments, the total amount paid in wages in 1888 and 1889, the wages paid by new firms and the increase in the amount paid in wages in 1889 over 1888; the annual earnings per employé in each industry, computed by dividing the total amount paid in wages by the total number of employés; the relative importance of 62 leading industries according to the total and percentage amount paid in wages; and a record of the loss by fire in each industry each year, from 1885 to 1889. A table compiled from direct correspondence of the bureau with foreign authorities shows the average daily earnings, the hours of labor, and the purchasing power of a day's labor of a blacksmith in wheat bread, meat, pork, and butter. A table compiled for and presented at the seventh annual convention of chiefs of bureaus of labor, 1889, shows the relative purchasing power of the daily wages of a blacksmith in the same commodities in Wisconsin and in foreign countries.

Synoptical report of inspection of factories and workshops (145 pages).—Under this head are given statements of the condition of each establishment inspected, the number

of employes (male and female), and the power employed; tables showing, by industries and also by localities, the amounts spent for new factory building improvements during the years 1888 and 1889; the relative importance of 23 leading branches of industry, based upon the number of employes; by localities, the number and nature of accidents occurring, with a recapitulation according to the nature of the accidents; a statement of orders issued to hotels, public halls, etc.; and an index to firms and corporations embraced in this report.

Bureaus of labor statistics (1 page).—A list of bureaus of labor statistics and the name and post office address of the chief or commissioner of each.

Development of manufacturing industries.—Two detached sheets show for Milwaukee and for the whole state the number of establishments established in each year, from 1836 to 1890, in each industry.

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